

VHF FM Transceiver **VX-4000V**Service Manual

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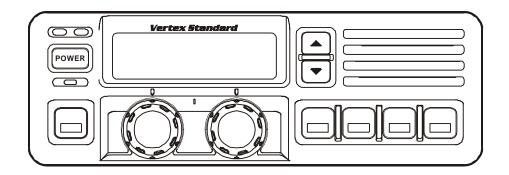
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Introduction

This manual provides technical information necessary for servicing the VX-4000V FM Transceiver.

Servicing this equipment requires expertise in handling surface-mount chip components. Attempts by non-qualified persons to service this equipment may result in permanent damage not covered by the warranty, and may be illegal in some countries.

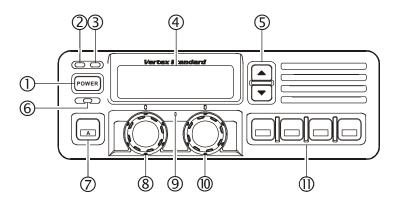
Two PCB layout diagrams are provided for each double-sided circuit board in the Transceiver. Each side of is referred to by the type of the majority of components installed on that side ("leaded" or "chip-only"). In most cases one side has only chip components, and the other has either a mixture of both chip and leaded components (trimmers, coils, electrolytic capacitors, ICs, etc.), or leaded components only.

While we believe the technical information in this manual to be correct, VERTEX STANDARD assumes no liability for damage that may occur as a result of typographical or other errors that may be present. Your cooperation in pointing out any inconsistencies in the technical information would be appreciated.

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CONTROLS & CONNECTORS

Front Panel



① POWER Button

Press the button to turn the transceiver ON and OFF.

② TX Indicator

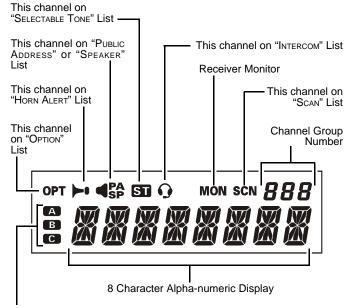
This lamp glows red when the radio is transmitting.

3 BUSY Indicator

This lamp glows green when the channel is busy.

4 Liquid Crystal Display

The display include an 8-character alpha-numeric section showing channel and group names, status and identity information, and error messages. Additional indicators on the display show priority channel assignments and scan include / exclude selection.



This channel on "AUX A/B/C" List

⑤ **▲/▼** Button

Pressing these buttons changes the current group (and displayed group number or name). Holding this button for more than 1/2 second causes the function to repeat.

© SOC Indicator

This lamp glows orange when incorrect position at the setting of CE35.

⑦ Programmable Function Button (PF button)
This button can be set up for special applications, such as high/low power selection, monitor, dimmer, talk-around, and call alert function, as determined by your network requirements and programmed by your VERTEX STANDARD dealer.

(8) VOLUME Knob

This knob sets the volume of the receiver.

9 EMERGENCY Microphone

The emergency microphone is located behind this small slit. When the emergency feature is activated, this Microphone is enabled.

(10) CHANNEL Selector Knob

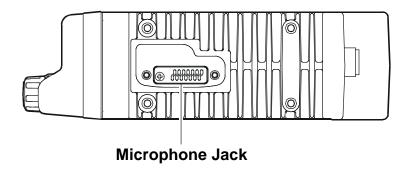
This knob select the operating channel.

① Programmable Function Button (PF button) This button can be set up for special applications, such as high/low power selection, monitor, dimmer, talk-around, and call alert function, as determined by your network requirements and programmed by your VERTEX STANDARD dealer.

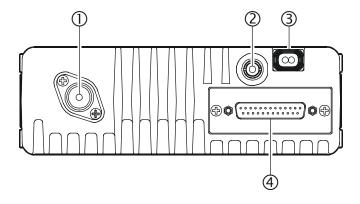
CONTROLS & CONNECTORS

Side Panel

Microphone Jack (It is on both sides.) Connect the microphone plug to this jack.



REAR (Heatsink)



(1) Antenna Socket

The 50-ohm coaxial feedline to the antenna must be connected here, using a type-M (PL-259) plug.

② External Speaker Jack

An external loudspeaker may be connected to this 2-contact, 3.5-mm mini-phone jack.

Caution: Do not connect this line to ground, and be certain that the speaker has adequate capability to handle the audio output from the VX-4000.

3 13.8-V DC Cable Pigtail w/Connector

The supplied DC power cable must be connected to this 2-pin connector. Use only the supplied fused cable, extended if necessary, for power connection.

4 DSUB 25-Pin Accessory Connector

External TX audio line input, PTT (Push To Talk), Squelch, and external RX audio line output signal may be obtained from this connector for use with accessories such as data transmission/reception modems, ets.

BASIC OPERATION OF THE TRANSCEIVER

Important! - Before turning on the radio the first time, confirm that the power connections have been made correctly and that a proper antenna is connected to the antenna jack.

Switching Power ON/OFF

Push the **POWER** switch turn on the radio. The display will become illuminated. The radio will start up on the last channel used prior to shutdown during the previous operating session. Turn the **CHANNEL** selector knob to choose the desired operating channel. A channel name will appear on the display. If you want to select the operating channel from a different Memory Channel Group, press the $\mathbf{UP}(\blacktriangle)$ or $\mathbf{DOWN}(\blacktriangledown)$ button to select the Memory Channel Group you want before selecting the operating channel.

Setting the Volume

Turn the **VOLUME** knob clockwise to increase the volume, and counterclockwise to decrease it. If no signal is present, press and hold in the **MON** button more than 1/2 seconds; background noise will now be heard, and you may use this to set the **VOLUME** knob for the desired audio level. Press and hold the **MON** button more than 1/2 seconds to quiet the noise and resume normal (quiet) monitoring.

Transmitting

To transmit, wait until the "BUSY" indicator is off (the channel is not in use), and press the PTT (Push-To-Talk) switch on the side of the microphone (the "TX" indicator will appear or the "TX" indicator will glow red). While holding in the PTT switch, speak across the face of the microphone in a clear, normal voice level, and then release the PTT switch to receive.

Selecting Groups and Channels

- O Press the **UP** (▲) or **DOWN** (▼) button (repeatedly, if necessary) to select a different group of channels.
- O Turn the **CHANNEL** selector knob to select a different channel **within the current group**.

Automatic Time-Out Timer

If the selected channel has been programmed for automatic time-out, you must limit the length of each transmission. While transmitting, a beep will sound five seconds before time-out. Another beep will sound just before the deadline; the "TX" indicator will disappear and transmission will cease soon thereafter. To resume transmitting, you must release the PTT and wait for the "penalty timer" to expire (if you press the PTT before this timer expires, the timer restarts, and you will have to wait another "penalty" period.)

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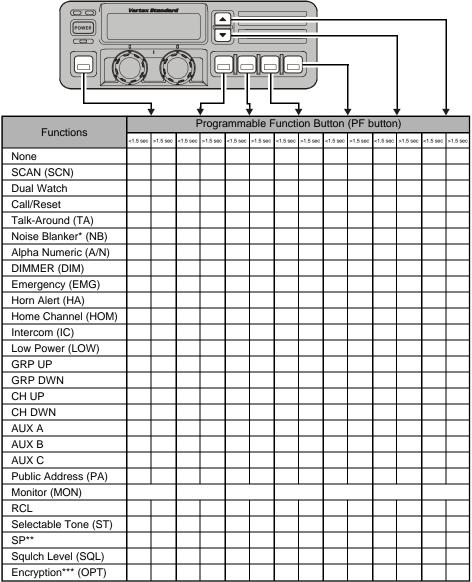
ADVANCED OPERATION

Programmable Function Button (PF button)

The VX-4000 includes the seven **Programmable Function Buttons (PF button)**. The **PF** button functions can be customized, via programming by your VERTEX STANDARD dealer, to meet your communications/network requirements. Some features may require the purchase and installation of opetional internal accessories. The possible **PF** button programming features are il-

lustrated at the below, and their functions are explained on next page.

For further details, contact your VERTEX STAN-DARD dealer. For future reference, check the box next to each function that has been assigned to the **PF** button on your particular radio, and keep it handy.



^{*} for VX-4000L

^{**} requires RMK-4000

^{**} requires Encryption Unit

ADVANCED OPERATION

Channel Scan

The Scanning feature is used to monitor multiple signals programmed into the transceiver. While scanning, the transceiver will check each channel for the presence of a signal, and will stop on a channel if a signal is present.

To activate scanning:

- O Press the assigned **PF** button of the "**Scan**" momentarily to activate scanning.
- O The scanner will search the channels, looking for active ones; it will pause each time it finds a channel on which someone is speaking.

To stop scanning

- O Press the assigned **PF** button of the "**Scan**".
- O Operation will revert to the channel to which the **CHANNEL** selector knob is set.

Note:Your dealer may have programmed your radio to stay on one of the following channels if you press the **PTT** switch during scanning pause:

Current channel (""	Talk Back"
---------------------	------------

- "Last Busy" channel
- T "Priority" channel
- "Home" channel
- ☐ Scan Start" channel

Dual Watch

The Dual Watch feature is similar to the Scan feature, except that only two channels are monitored:

The	cur	rer	ıt (оре	eratii	ng c	hannel	l; and
mi	"D		• .	••	1	1		

☐ The "Priority" channel.

To activate Dual Watch:

- O Press the assigned **PF** button of the "**Dual Watch**".
- O The scanner will search the two channels; it will pause each time it finds a channel on which someone is speaking.

To stop Dual Watch:

- O Press the assigned **PF** button of the "**Dual Watch**".
- O Operation will revert to the channel to which the **CHANNEL** selector knob is set.

ARTS (Auto Range Transpond System)

This system is designed to inform you when you and another ARTS-equipped station are within communication range.

During ARTS operation, your radio automatically transmits for about 1 second every 25 (or 55) seconds (the interval is programmed by Dealer) in an attempt to Shake hands with the other station. If you move out of range for more than one minutes, your radio senses that no signal has been received, a ringing beeper will sound. If you subsequently move back into range, as soon as the other station transmits, your beeper will sound.

The PF Button Function

The **PF** (Programmable Function) button can be programmed by the dealer to provide two of the other functions described below.

To activate the primary Accessory function, press the **PF** button momentarily. To access the secondary Accessory function (which may include the Alarm), press and hold the **PF** button for 1.5 seconds or longer.

Call/Reset

When this feature is programmed and a selective call has been received, momentarily press the assigned **PF** button of the "**Call/Reset**" to reset the flashing indicator and mute the receiver, otherwise press the assigned **PF** button of the "**Call/Reset**" to sent your radio's identification code (ANI) to the dispatcher.

Talk-Around

The feature causes the assigned **PF** button of the "**Talk-Around**" to select simplex operation on semi-duplex channels: the transmit frequency becomes the same as the receive frequency (regardless of any programmed offset for the channel).

Note: This feature has no effect on simplex channels. After pressing the button, "**TA**" is displayed on the LCD.

Noise Blanker (for VX-4000L)

Because local noise can be particularly troublesome in the VHF Low-Band frequency spectrum, the Low-Band version of the VX-4000 includes a Noise Blanker feature, which may be toggled on and off by pressing the assigned **PF** button of the "**Noise Blanker**" for the appropriate length of time.

Operating Manual Reprint

ADVANCED OPERATION

Alpha Numeric

Press the assigned **PF** button of the "**Alpha Numeric**" to switch the display between the Group/Channel number, and the Group/Channel name (alphanumeric). A tone will sound each time you switch between numerical and alphanumerical display.

DIM

Press the assigned **PF** button of the "**DIM**" to adjust the brightness of the display and key backright.

EMG (Emergency)

Press the assigned **PF** button of the "**EMG**" to initiate an emergency call (requires ANI board). When an emergency call is made, not tone is emitted and the display does not change. To end the emergency call, turn the transceiver power OFF.

HA (Horn Alert)

Press the assigned **PF** button of the "**HA**" to turn the Horn Alert function ON or OFF. If you receive a call from the base station with 2Tone or DTMF signaling, horn alert will activate.

When you turn Horn Alert ON, a tone will sound and " • appears on the display.

Home (Home Channel)

Press the assigned **PF** button of the "**Home**" to select the pre-programmed Home Channel. Press it again to return to the previous channel. If used while scanning, pressing this key a second time will change to the revert channel.

IC (Intercom)

This feature requires dual head configuration. Press the assigned **PF** button of the "**IC**" to turn the intercom feature ON or OFF. While ON, you can press the PTT switch to communicate to another control head operator without transmitting over the air. When you press this key, a tone sounds and "**Q**" appears on the display. The intercom can be used even while scanning and receiving a call.

Low Power

Press the assigned **PF** button of the "**Low Power**" to set the radio's transmitter to the "Low Power" mode.

Press this key again to return to "High Power" operation when in difficult terrain.

GRP UP/DWN

Press the assigned **PF** button of the "**GRP UP**" or "**GRP DWN**" to select a different group of channels.

CH UP/DWN

Press the assigned **PF** button of the "**CH UP**" or "**CH DWN**" to select a different channel within the current group.

AUX A/B/C

Press the assigned **PF** button of the "**AUX A**", "**AUX B**", or "**AUX C**" to turn the output port (respectively).

PA (Public Address)

Press the assigned **PF** button of the "**PA**" to use the transceiver as a PA amplifier. When you enable this function, a tone sounds and "**PA**" appears on the display. The public address can be used even while scanning and receiving a call.

MONI (Monitor)

Press the assigned **PF** button of the "**MONI**" momentarily to cancel CTCSS and DCS signaling squelch; the "**MON**" icon appears on the display. Press and hold this key for 1/2 seconds to hear background noise (unmute the audio); the **MON** icon blinks on the display.

RCL (Channel Recall)

During scan, you can press the assigned **PF** button of the "**RCL**" to select the last called channel.

ST (Selectable Tone)

Press the assigned **PF** button of the "**Selectable Tone**", then rotate the CHANNEL selector knob to select a 2-Tone.

SP

Press the assigned **PF** button of the "**SP**" to switch "Front panel", "Front panel & Body" and "Body" speaker. When "Body" is selected, a tone sounds and the "**SP**" icon appears on the display. You can use this function while scanning and receiving a call. However, all audio will be emitted from the PA speaker.

ADVANCED OPERATION

SQL (Squelch Level)

You can manually adjust the squelch level using this function:

- 1. Press the assigned **PF** button of the "**SQL**". A tone sounds and SQL appears on the display with the current squelch level.
- 2. Rotate the **CHANNEL** selector knob to select the desired level.
- 3. Press the this key. A tone sounds and the display returns to the normal channel.

Encryption (Option)

When the Voice Scrambler feature is enabled, pressing the assigned **PF** button of the "**Encryption**" toggles the Scrambler on and off.

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Operating Manual Reprint

OPTIONAL ACCESSORIES

MH-25_{B7A} Microphone

MH-53_{C7A} Heavy Duty Microphone

MH-53_{A7A} Heavy Duty Microphone w/Noise Canceler

MH-53_{B7A} Heavy Duty DTMF Microphone w/Noise Canceler

CE35 Programming Software

CT-70 Radio Programming Cable (Requires VPL-1)

CT-71 Radio to PC Programming CableCT-72 Radio to Radio Programming Cable

CT-81 Cable for RMK-4000 (6 m)
CT-82 Cable for RMK-4000 (2.5 m)
CT-83 Cable for RMK-4000 (0.6 m)

CNT-4000 Control Head

RF DECK RF Deck w/MMB-75 (for Dual Band Installations)

RMK-4000SH Remote Kit (for Single Transceiver)
 RMK-4000DH Remote Kit (for Dual-Head Installations)
 RMK-4000DB Remote Kit (for Dual Band Installations)

RMK-4000DBH Remote Kit (for Dual Band plus Dual Head Installations)

F2D-8 2-Tone Decode Unit (Requires FIF-7) **F5D-14** 5-Tone ENC-DEC Unit (Requires FIF-7)

VTP-50 VX-Trunk Unit (Requires FIF-7)

FVP-25 Encryption/DTMF pager Unit (Requires FIF-7)

FP-1023 External 23A Power Supply

MLS-100 Mobile Loud speaker (12 W Peak Power)

MMB-75 Mobile Mounting Bracket

MMB-76 Locking Mobile Mounting Bracket

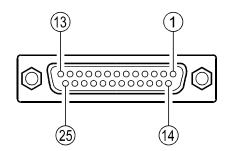
LF-1 Line Filter

FIF-7 Inter face Board (for F2D-8, F5D-14, VTP-50, FVP-25)

CN-6 Inter face Board (for Accessories)

FIF-8 Flash ROM Adapter

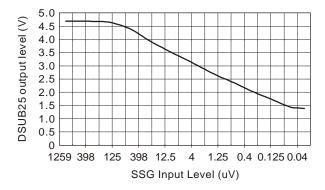
DSUB 25-PIN ACCESSORY CONNECTOR



DSUB 25-Pin Numbering

Pin 1: RSSI [Analog Output]

A DC voltage proportional to the strength of the signal currently being received (Receiver Signal Strength Indicator) is provided on this pin. This low impedance output is generated by the receiver IF sub-system and buffered by an internal op-amp. Typical voltages are graphed as follows:

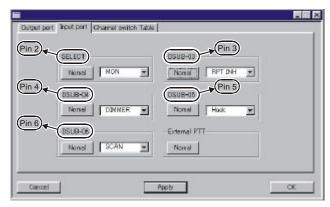


Pin 2, 3, 4, 5 & 6: AI1, AI2, AI3, AI4 & AI5

[Universal Input Port]

These input port features can be programmed via the CE35 programmer. The same item can not be chosen twice.

To select the "Input port" page, (View → Common View → DSUB-25pin connector → Input port).



LOGIC level (+5V / 0V) input (Low active). High Impedance input.

None

MON This feature is the same as pressing

and holding in the Monitor key.

DIM LCD illumination dimmer "on." **Hook** Activates the Hook1 feature.

SCAN Activates the scanner.

G-SCAN Activates the Group scanner.

RPT INH Disables the repeater feature during

Multi Deck operation.

ENG Activates the Emergency feature. **Home** Switches to the Home Channel.

CH SW0 Memory channel recall

(Channel Switch Table bit 0)

CH SW1 Memory channel recall

(Channel Switch Table bit 1)

CH SW2 Memory channel recall

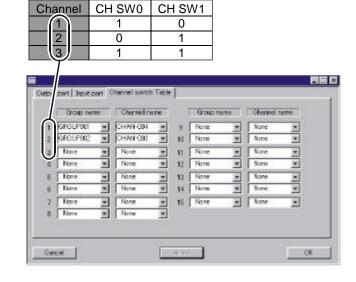
(Channel Switch Table bit 2)

CH SW3 Memory channel recall

(Channel Switch Table bit 3)

Example

If you assign "CH SW0" and "CH SW1" to the Universal Input Port, you can recall Channels 1~3 as shown below.



Similarly, if you assign "CH SW0," "CH SW1," and "CH SW2" to the Universal Input Port, you can recall Channels 1~7 as shown below:

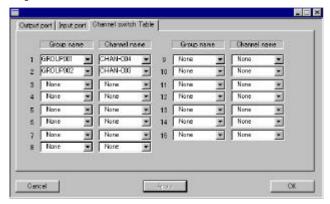
Channel	CH SW0	CH SW1	CH SW2
1	1	0	0
2	0	1	0
3	1	1	0
4	0	0	1
5	1	0	1
6	0	1	1
7	1	1	1

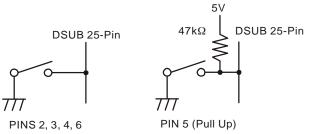
If you need to recall all memory channels (15 CH) from the External Controller via the Uni-versal Input Port, you should assign the "All Channel Recall" Command (CH SW 0 \sim CH SW 3) to the Universal Input Port.

In this case:

Channel	CH SW0	CH SW1	CH SW2	CH SW3
1	1	0	0	0
2	0	1	0	0
3	1	1	0	0
4	0	0	1	0
5	1	0	1	0
6	0	1	1	0
7	1	1	1	0
8	0	0	0	1
9	1	0	0	1
10	0	1	0	1
11	1	1	0	1
12	0	0	1	1
13	1	0	1	1
14	0	1	1	1
15	1	1	1	1

The Memory Channel is determined via the CE35 Programmer. (View Common View DSUB-25pin connector Channel switch Table).





Sample Circuit

Pin 7: E [GND]

Ground for all logic levels and power supply return.

Pin 8: AO2 [Universal Output Port]

Open collector output. Output voltage $0 \sim 5$ V, Max. sink current 30 mA.

The possible programming features (use CE35) are illustrated below.

A KEY/B KEY/C KEY/D KEY/E KEY/HA/Invert

Refer to the "Pins 20, 21, & 22" section for details.

Pin 9: TXD2 [Digital Output for Alignment software]

Connect to the RS232C cable (requires FIF-8 and CT-88)

Pin 10: RXD2 [Digital Input for Alignment software]

Connect to the RS232C cable (requires FIF-8 and CT-88)

Pin 11: TXS [EXT PTT]

Shorting this port to ground causes the transceiver to be placed in the Transmit mode, while opening the connection to this port returns the transceiver to the Receive mode.

Pin 12: MCM [MIC Mute]

MIC mute on: Level High (5V)

MIC mute off: Open

LOGIC level (+5V / 0V) output.

When the PTT/EXT PTT switch is pressed, this pin switches to "open."

Pin 13: MD/DI [Digital Input for DATA Communications]

- O TX Hi-speed Data Input Type (jumper JP2006). Input level 800 mV/600 Ohms, Max.input 1.2V
- O Tx Low-speed Data input Type (Jumper JP2007). Input level 40 mV/600-Ohms

If the Jumper setting is "Low-speed Data" (JP2007 jumpered), this port is usable in the AUDIO (300~3000 Hz) range.

If the jumper setting is "HI-speed Data" (JP2006 jumpered), this port is usable for 9600 bps DATA communications, because the filter and limiter are not engaged in the Audio line.

Pin 14: SB [13.8 V/5 V DC Output]

- O Switched 13.8V output for supplying power to an accessory (jumper JP2009).
- O Switched and regulated DC 5.0V output for supplying power to an accessory (jumper JP2008).

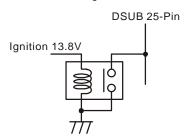
Maximum output current is 200 mA

Pin 15: IGN [Ignition Sense feature]

The VX-4000 may automatically be switched to the STAND-BY mode when the vehicle's igni-tion key is turned on.

Maximum current is 20 mA.

This feature is only enabled on transceivers configured for Dual Deck operation.



Pin 16: NC [NO connection]

Pin 17: AFO [Digital Output for DATA Communications]

- O RX Hi-speed Data Output Type (jumper JP2004). output level 600 mV/10k Ohms
- O RX Low-speed Data Output Type (jumper JP2005). output level 200 mV/600 Ohms

If the Jumper setting is "Low-speed Data" (JP2007 jumpered), this port is usable in the AUDIO (300~3000 Hz) range.

If the jumper setting is "HI-speed Data" (JP2006 jumpered), this port is usable for 9600 bps DATA communications, because the filter and limiter are not engaged in the Audio line.

Pin 18: E [GND]

Ground for all logic levels and power supply return.

Pin 19: NC [No Connection]

Pins 20, 21, & 22: AO1, AO3 & AO4

[Universal Output Port]

LOGIC level (+5V / 0V) output.

The logic output appears at these pins when the front panel's PF key is turned on.

The possible programming features (use CE35) are illustrated below.

If the HA feature is assigned to these ports, a current amplifier must be connected between the Horn circuit and the port.

A KEY/B KEY/C KEY/D KEY/E KEY/HA/Invert

Pin 23: SQ [Squelch Signal Output]

Open collector output. Max. sink current 10 mA. A Signal is present (Squelch is open): Level High No Signal is present (Squelch is closed): Open When you connect the solder jumper on J2002, this port changes to PULL UP (5 V) output. This status can be changed by CE35 programmer.

Pin 24: SPM [Speaker Mute Output]

Open collector output.

External Speaker mute on: Level High External Speaker mute off: Open

Pin 25: ME [GND]

Chassis ground.

Cloning

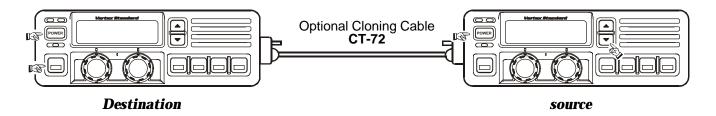
The **VX-4000** includes a convenient "Clone" feature, which allows the programming data from one transceiver to be transferred to another **VX-4000**. Here is the procedure for Cloning one radio's data to another.

Note: When a cloning isn't made, you correct the following part using "CE35."

When a "Radio to Radio Clone" which is in the "Miscellaneous" menu is "Disabled," change this menu to "Enabled."

- 1. Turn both transceivers off.
- 2. Remove the plastic cap and its two mounting screws from the **Microphone** jack on the transceiver. Do this for both transceivers.
- Connect the optional CT-72 cloning cable between the Microphone jacks of the two transceivers.
- 4. On the **Destination** transceiver, press and hold the **PF Button** (just below the **POWER Button**) while turning the transceiver on.

- Now, on the *source* transceiver, press and hold the ▼ Button while turning the transceiver on.Data will now be transferred to the *Destination* transceiver from the *source* transceiver.
- 6. If there is a problem during the cloning process, sound an error beep from source the transceiver. Check your cable connections and battery voltage, and try again.
- 7. If cloning is a successful, turn the **Destination** transceiver off. Now turn the **source** transceiver off.
- 8. Disconnect the **CT-72**. Replace the plastic cap and its two mounting screws.
- 9. You can then turn the transceivers back on, and begin normal operation.

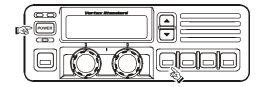


DealerProgramming of VTP-50 and F5D-14

These procedures are designed to be used by the installing technician after the **VTP-50** and **F5D-14** has been installed in the transceiver. To program a **VX-4000**'s **VTP-50** and **F5D-14** board, you will need the **CT-71** programming interface cable, the **CE-26** Programming diskette, and an IBM PC/AT or PS/2-compatible tyoe computer.

To enter the Programming mode, use the following procedure:

- 1. Turn the transceiver off.
- Turn on the transceiver while holding in the PF Button (just below the ▼ Button).



Specifications

GENERAL

Number of Channels: 250 channels

Frequency Range: 134 - 160 MHz (A), 148 - 174 MHz (C)

Channel Spacing: 12.5 / 25 / 30 kHz

Power Supply Voltage: 13.8 VDC

Current Consumption: Standby: 400 mA

Receive: 2.1 A
Transmit: 12 A

Ambient Temperature Range: $-30^{\circ}\text{C to } +60^{\circ}\text{C } (-22^{\circ}\text{F to } +140^{\circ}\text{F})$

Frequency Stability: ±2.5 ppm

RF Input-Output Impedance: 50 Ohms

Audio Output Impedance: 4 Ohms

Dimensions: 7" (w) x 2.4" (H)x 7.7" (D) (178 x 60 x 195 mm)

Weight: 4.9 lbs. (2.2 kg)

RECEIVER (Measurements made per EIA standard TIA/EIA-603)

Circuit Type: Double-conversion Super-heterodyne

Sensitivity(EIA 12 dB SINAD): $0.25 \mu V$

Adjacent Channel Selectivity: 85 dB / 75 dB

Intermodulation: 76 dB **Spurious and Image Rejection**: 90 dB

Audio Response: +3 / -8 dB from the 6 dB / oct. re-emphasis curve

Audio Output: 5 W @ 4 Ohms, 10 % THD

10 W @ 4 Ohms w/<10 % THD (Option)

Transmitter (Measurements made per EIA standard TIA/EIA-603)

Power Output: 50 / 25 W

Modulation: 16K0F3E, 11K0F3E

Max Deviation: 5.0 / 2.5 kHz

Conducted Spurious Emissions: 70 dB Below Carrier

FM Hum & Noise: 45 dB (25 kHz) / 40 dB (12.5 kHz) **Audio Response**: +1 / -3 dB from the 6 dB / oct-8

Audio Distortion (@ 1 kHz): < 3 %

Measurements per EIA standards unless noted above. Specifications subject to change without notice or obligation.

Exploded View & Miscellaneous Parts

Screw List					
REF.	VXSTD P/N	Description	Qty.		
1	U20306007	BINDING HEAD SCREW M3x6B	4		
2	U20306002	BINDING HEAD SCREW M3x6NI	6		
3	U24308002	TAPTITE SCREW M3x8NI	9		
4	U23206001	TAPTITE SCREW M2.6x6	14		
5	U20308002	BINDING HEAD SCREW M3x8NI	2		
6	U24208001	TAPTITE SCREW M2.6x8	1		
7	U20305007	BINDING HEAD SCREW M3x5B	2		
8	U32450007	FLAT HEAD SCREW M2.6x5B	2		
9	U31306007	OVAL HEAD SCREW M3x6B	2		
10	S5000182	SCREW JFS-4S-B1MW	2		

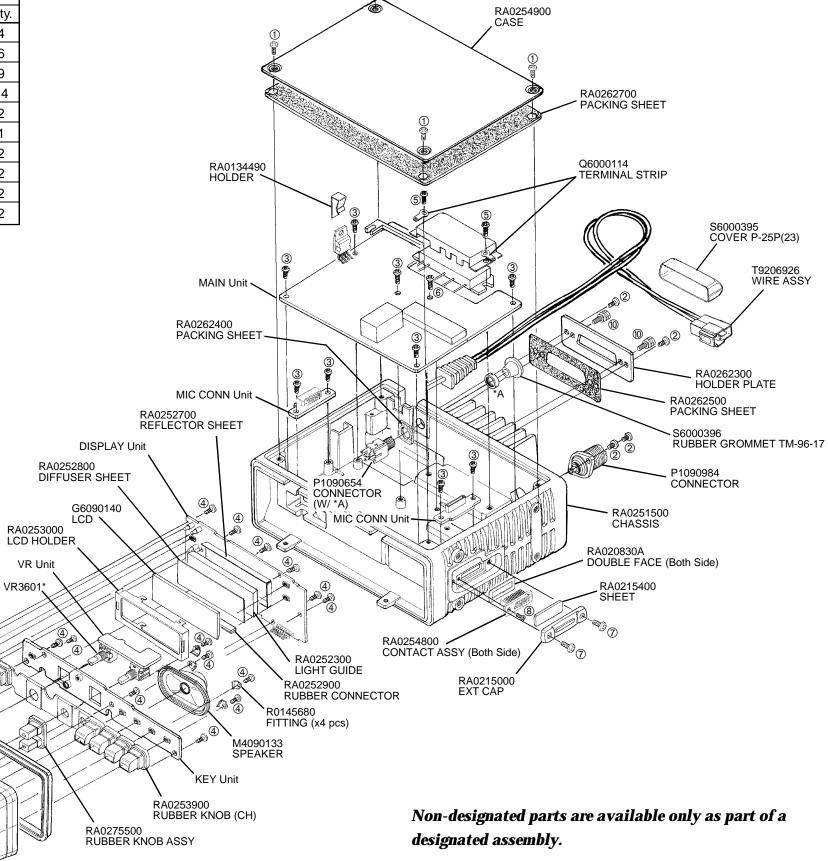
Accessories						
Description	VXSTD P/N	Qty.				
BLADE FUSE ATC 15A	Q0000075	2				
DC CABLE 02P 15AX2	T9021015	1				
KNOB CAP	RA0254100	5				
NAME PLATE	RA0254700	1				

RA0254000 RUBBER KNOB (PWR)

RA0254200 RUBBER PACKING

RA0251900 PANEL ASSY

Supplide is VR3601*



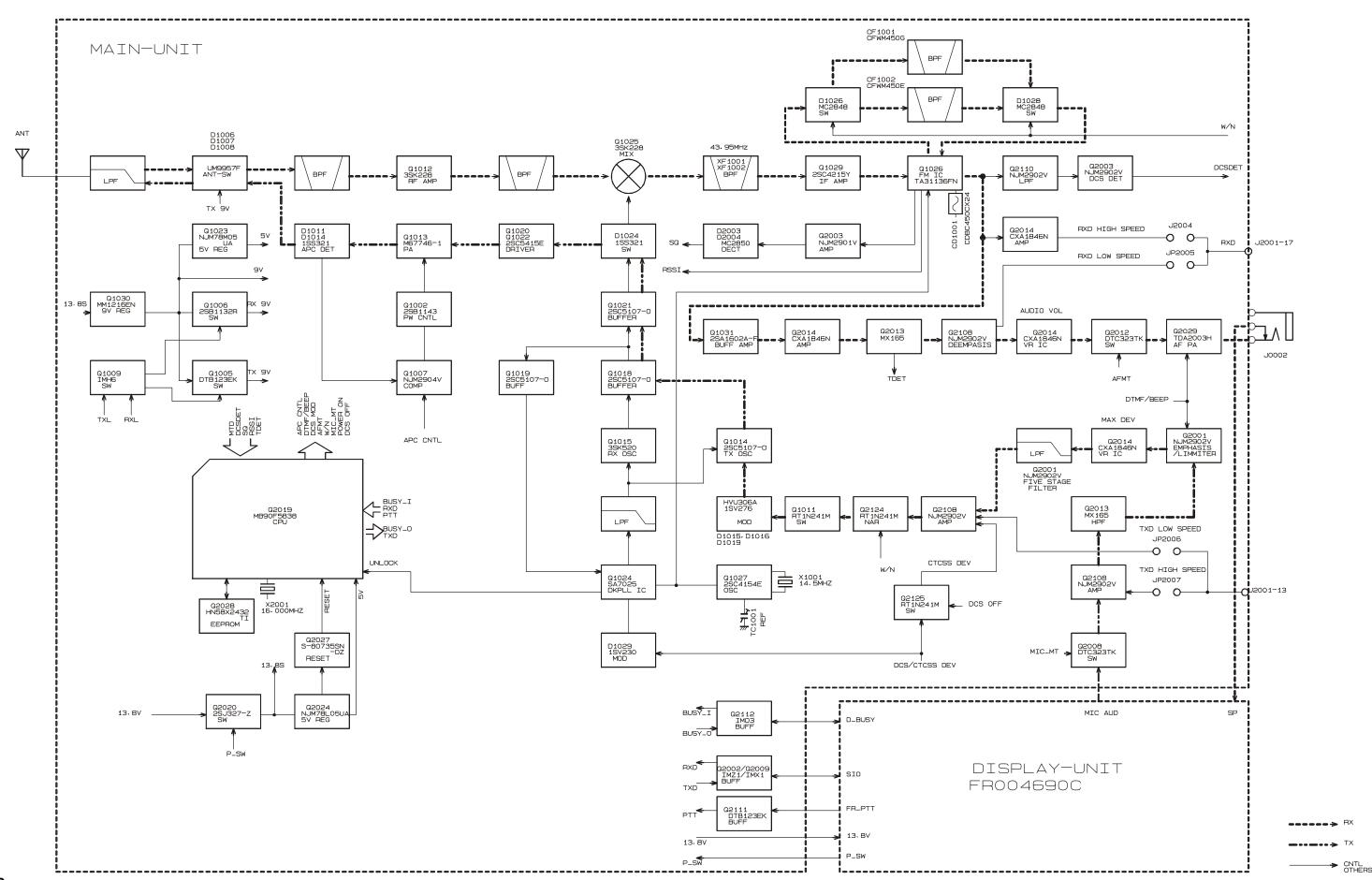
RA02543A0 RUBBER KNOB (CH)
RA0275500 RUBBER KNOB ASSY

RA0254300 ROBER KNOB ASSY

ROBER KNOB (CH)
RA0275500 RUBBER KNOB ASSY

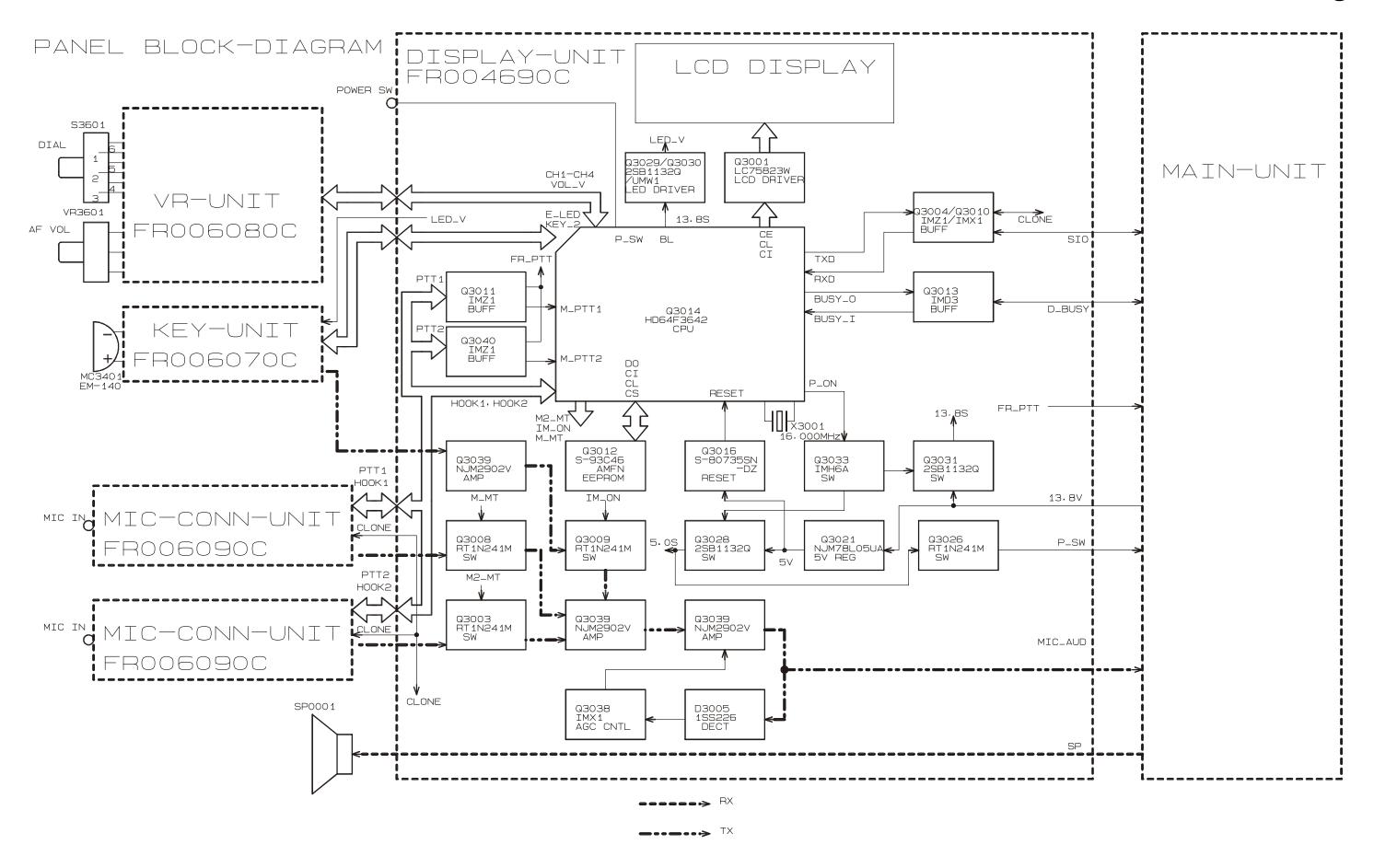
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Block Diagram

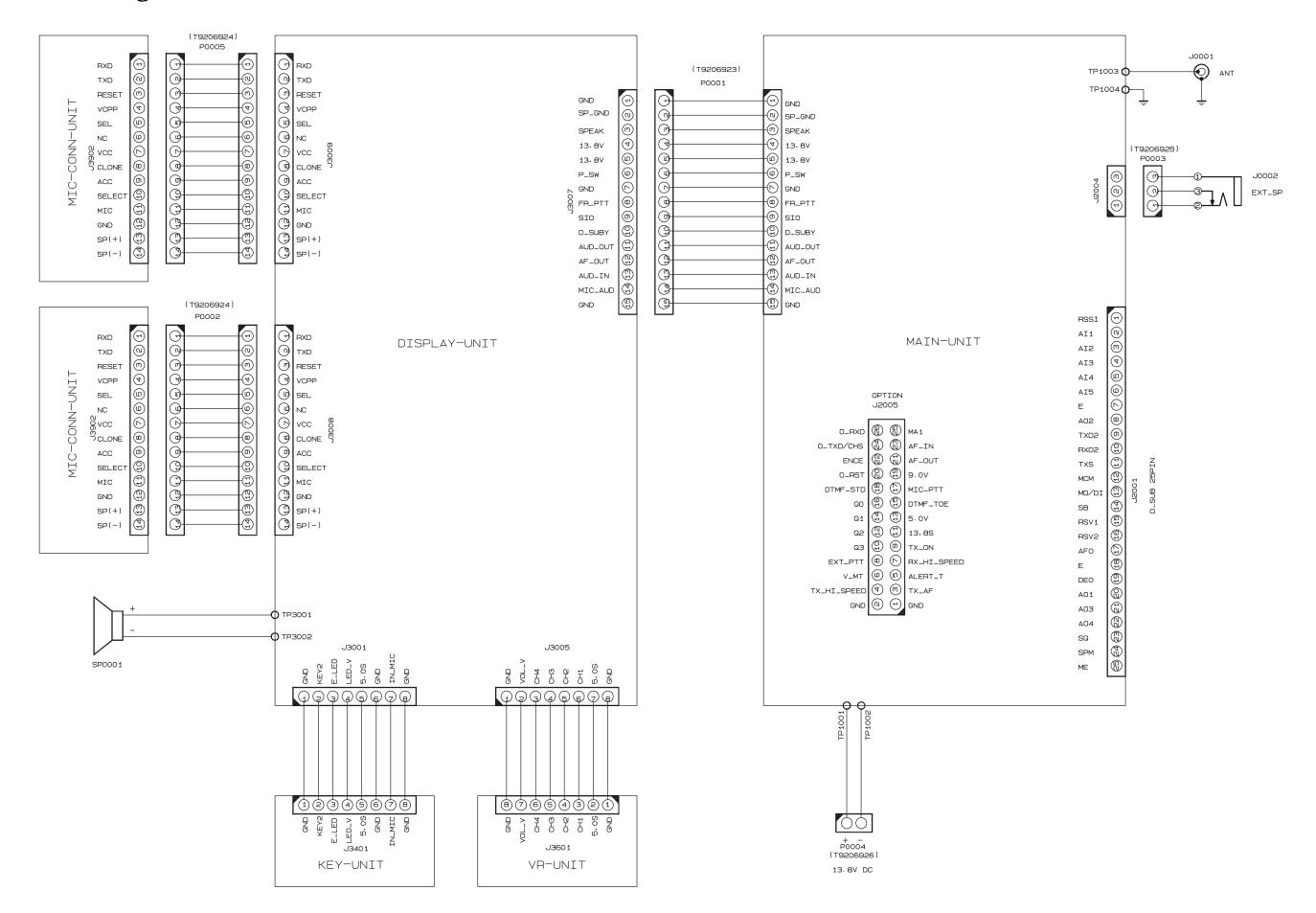


3-2

Block Diagram



Interconnection Diagram



3-4 VX-4000 VHF Service Manual

Circuit Description

Reception and transmission are switched by "RX" and "TX" lines from the microprocessor unit (MPU).

Main Receiver Signal Path

The receiver uses double-conversion superheterodyne circuitry, with a 43.95 MHz 1st IF and $450 \, kHz$ 2nd IF. The 1st LO, produced by a PLL synthesizer, yields the 43.95 MHz 1st IF.

The 2nd LO uses a 43.5 MHz (43.95 MHz-450 kHz) signal generated by a crystal oscillator. The 2nd mixer and other circuits use a custom IC to convert and amplify the 2nd IF, and detect FM to obtain demodulated signals.

During transmit, the PLL synthesizer oscillates at the desired frequency directly, for amplification to obtain RF power output. During transmit, voice modulation and CTCSS (or DCS) modulation are applied to this synthesizer. Transceiver functions, such as TX/RX control, PLL synthesizer settings, and channel programming, are controlled using the MPU.

Receiver

Incoming RF signals from the antenna connector are delivered to the MAIN Unit, and pass through a low-pass filter (LPF) antenna switching network consisting of coils L1001, L1002, L1003 and L1006, capacitors C1001,C1006, C1009, C1013, and C1023, and antenna switching diodes D1006,D1007 and D1008 for delivery to the receiver front end.

Signals within the frequency range of the transceiver are then passed through a varactor-tuned bandpass filter consisting of L1008, L1009 / L1024, L1025 before RF amplification by Q1012 (3SK228).

The amplified RF is then band-pass filtered again by varactor-tuned resonators L1018, L1019 / L1038, L1039 to ensure pure in-band input to 1st mixer Q1025 (**2SK228**).

Buffered output from the VCO Unit is amplified by Q1021 (2SC5107) and low-pass filtered by L1042 / L1046 and C1132 / C1139 / C1142, to provide a pure 1st local signal between 112.3 and 152.3 MHz to the 1st mixer.

The 43.95MHz 1st mixer product then passes through dual monolithic crystal filters XF1001 and XF1002 (7.5 kHz BW), and is amplified by Q1029 (**2SC4215Y**) and delivered to the input of the FM IF subsystem IC Q1026 (**TA31136FN**).

This IC contains the 2nd mixer, 2nd local oscillator, limiter amplifier, FM detector, noise amplifier, and squelch gates.

The 2nd LO in the IF-IC is produced from crystal X1001 (14.500MHz), and the 1st IF is converted to 450kHz by the 2nd mixer and stripped of unwanted components by ceramic filter CF1001 or CF1002. After passing through a limiter amplifier, the signal is demodulated by the FM detector.

Demodulated receive audio from the IF-IC is amplified by Q1031 (**2SA1602A**) / Q2014 (**CXA1846N**). After volume adjustment by the AF power amplifier Q2029 (**TDA7240AV**), the audio signal is passed to the optional headphone jack or 4-ohm loudspeaker.

PLL synthesizer

The 1st LO maintains stability from the PLL synthesizer by using a 14.500 MHz reference signal from crystal X1001. PLL synthesizer IC Q1024 (SA7025DK) consists of a prescaler, reference counter, swallow counter, programmable counter, a serial data input port to set these counters based on the external data, a phase comparator, and charge pump. The PLL-IC divides the 14.500 MHz reference signal by 725 using the reference counter (20.0 kHz comparison frequency). The phase detector comparison frequency to be eight times the channel spacing (2.5kHz). The VCO output is divided by the prescaler, swallow counter and programmable counter. These two signals are compared by the phase comparator and input to the charge pump. A voltage proportional to their phase difference is delivered to the low-pass filter circuit, then fed back to the VCO as a voltage with phase error, controlling and stabilizing the oscillating frequency. This synthesizer also operates as a modulator during transmit.

The RX-VCO is comprised of Q1015 (2SK520) and D1017, D1018, D1035, D1036 (HVU356x4), and oscillates between 177.950MHz and 217.950MHz according to the programmed receiving frequency. And the TX-VCO is comprised of Q1014 (2SC5107) and D1015, D1016, D1019 (1SV276x3), and oscillates between 134.000MHz and 174.000MHz according to the programmed transmit frequency. The VCO output passes through buffer amplifier Q1018 (2SC5107), and a portion is fed to the buffer amplifier Q1019 (2SC5107) of the PLL IC, and at the same time amplified by Q1021 (2SC5107) to obtain stable output. The VCO DC supply is regulated by Q1008 (2SC4154E). Synthesizer output is fed to the 1st mixer by diode switch D1024 (1SS321) during receive, and to drive amplifier Q1020/Q1022 (2SC5415Ex2) for transmit. The reference oscillator feeds the PLL synthesizer, and is com-

Circuit Description

posed of crystal X1001 (14.500 MHz), the temperature compensation circuit which includes D1033 (**MC2850**) and thermostats TH1003 and TH1002, and transmit (DCS) modulation circuit D1029 (1SV2309).

Transmitter

Voice audio from the microphone is delivered via the Mic (Jack) Unit to the MAIN Unit, after passing through amplifier Q3039/Q2108 (NJM2902V), pre-emphasis, limiter (IDC instantaneous deviation control), and LPF Q2001 (NJM2902V), is adjusted for optimum deviation level and delivered to the next stage.

Voice input from the microphone and CTCSS are FM-modulated to the VCO of the synthesizer, while DCS audio is modulated by the reference frequency oscillator of the synthesizer.

Synthesizer output, after passing through diode switch D1024 (1SS321), is amplified by driver Q1020 / Q1022 (2SC5415Ex2) and power module Q1013 (M67746) to obtain full RF output. The RF energy then passes through antenna switch D1007 / D1008 and a low-pass filter circuit and finally to the antenna connector.

RF output power from the final amplifier is sampled by CM coupler and is rectified by D1011, D1014 (HSM88ASx2). The resulting DC is fed through Automatic Power Controller Q1007 (NJM2904V), Q1001 (2SC4154E), Q1002 (2SB1143S) to transmitter RF amplifier and thus the power output.

Generation of spurious products by the transmitter is minimized by the fundamental carrier frequency being equal to the final transmitting frequency, modulated directly in the transmit VCO. Additional harmonic suppression is provided by a low-pass filter consisting of L1002, L1003, L1007, L1012 and C1006, C1009, C1013, C1023, C1033, C1037 and C1046, resulting in more than 60dB of harmonic suppression prior to delivery to the RF energy to the antenna.

DCS Demodulator

DCS signals are demodulated on the MAIN-UNIT, and are applied to low-pass filter Q2110 (NJM2902V), as well as the limiter comparator Q2110.

CTCSS encoder/decoder

The CTCSS code is generation and encoding by MPU IC Q2019 (MB90F583B).

Demodulation and detection of the CTCSS tones are carried out by IC Q2013 (MX165C).

MPU

Operation is controlled by 16-bit MPU IC Q2019 (MB90F583B). The system clock uses a 16.000 MHz crystal for a time base. IC Q2027 (S-80735SN) resets the MPU when the power is on, and monitors the voltage of the regulated 5V power supply line.

EEPROM

The EEPROM retains TX and RX data for all memory channels and CTCSS data, DCS data, prescaler dividing, and REF oscillator data (internal/external).

The VX-4000 has been carefully aligned at the factory for the specified performance across the frequency range specified for each version.

Realignment should therefore not be necessary except in the event of a component failure, or alteration of version. All component replacement and service should be performed only by an authorized **VERTEX STANDARD** representative, or the warranty policy may be voided.

The following procedures cover the sometimes critical and tedious adjustments that are not normally required once the transceiver has left the factory. However, if damage occurs and some parts are replaced, realignment may be required. If a sudden problem occurs during normal operation, it is likely due to component failure; realignment should not be done until after the faulty component has been replaced.

We recommend that servicing be performed only by authorized **VERTEX STANDARD** service technicians who are experienced with the circuitry and fully equipped for repair and alignment. Therefore, if a fault is suspected, contact the dealer from whom the transceiver was purchased for instructions regarding repair.

Authorized VERTEX STANDARD service technicians realign all circuits and make complete performance checks to ensure compliance with factory specifications after replacing any faulty components. Those who do undertake any of the following alignments are cautioned to proceed at their own risk. Problems caused by unauthorized attempts at realignment are not covered by the warranty policy. Also, **VERTEX STANDARD** must reserve the right to change circuits and alignment procedures in the interest of improved performance, without notifying owners. Under no circumstances should any alignment be attempted unless the normal function and operation of the transceiver are clearly understood, the cause of the malfunction has been clearly pinpointed and any faulty components replaced, and the need for realignment determined to be absolutely necessary. The following test equipment (and thorough familiarity with its correct use) is necessary for complete realignment. Correction of problems caused by misalignment resulting from use of improper test equipment is not covered under the warranty policy.

While most steps do not require all of the equipment listed, the interactions of some adjustments may require that more complex adjustments be performed afterwards.

Do not attempt to perform only a single step unless it is clearly isolated electrically from all other steps. Have all test equipment ready before beginning, and follow all of the steps in a section in the order presented.

Required Test Equipment

	RF signal generator: calibrated output level at
	1000 MHz
	Deviation Meter (linear detector)
	AF Millivoltmeter
	SINAD Meter
	Inline Wattmeter with 5% accuracy at 1000 MHz
	Regulated DC Power Supply: adjustable from 10
1	to 17 VDC, 15A
	50-ohm Non-reactive Dummy Load: 100 W at
	1000 MHz
	Frequency Counter: >0.1 ppm accuracy at 1000
	MHz
	AF Signal Generator
	DC Voltmeter: high impedance
	RF Sampling Coupler(attenuation pad)
	AF Dummy Load: 4 ohm, 20W
	Oscilloscope
	Spectrum Analyzer
	IBM PC/compatible computer w/ VERTEX STAN-
	DARD CT-71 programming cable and CE35 chan-
	nel programming editor.

Alignment Preparation & Precautions

A dummy load and inline wattmeter must be connected to the main antenna jack in all procedures that call for transmission, except where specified otherwise. Correct alignment is not possible with an antenna. After completing one step, read the following step to determine whether the same test equipment will be required. If not, remove the test equipment (except dummy load and wattmeter, if connected) before proceeding.

Correct alignment requires that the ambient temperature be the same as that of the transceiver and test equipment, and that this temperature be held constant between $68 \sim 86^{\circ} F$ ($20 \sim 30^{\circ} C$). When the transceiver is brought into the shop from hot or cold air it should be allowed some time for thermal equalization with the environment before alignment. If possible, alignments should be made with oscillator shields and circuit boards firmly affixed in place. Also, the test equipment must be thoroughly warmed up before beginning.

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Alignment

Before beginning, connect the transceiver and PC using the CT-71 programming cable as described in the EEPROM Programming chapter, and download the EEPROM data from the transceiver to the computer.

Store this data in a disk file so that it can be saved and retrieved later. Using the table below, program the channel, CTCSS, and DCS alignment settings for your transceiver version. Upload this file to the transceiver.

Note: Signal levels in dB referred to in this procedure are based on 0 dB μ = 0.5 μ V (closed circuit).

Caution: Do not connect this line to ground, and be certain that the speaker has adequate capability to handle the audio output from the radio.

Because of the bridge audio amplifier circuit used in the radio, it is necessary to construct and use a simple audio load test adapter as shown in the schematic diagram above, when conducting receiver alignment steps.

Alignment Channel Frequencies VHF TYPE A

Channel	Frequency (simplex)	CTCSS Encode	DCS Encode	Narrow/wide
CH1	134.01 MHz	None	None	Wide
CH2	147.01 MHz	None	None	Wide
CH3	159.99 MHz	None	None	Wide
CH4	134.01 MHz	None	None	Narrow
CH5	147.01 MHz	None	None	Narrow
CH6	159.99 MHz	None	None	Narrow
CH7	147.01 MHz	151.4 Hz	None	Wide
CH8	147.01 MHz	None	023	Wide
CH9	147.01 MHz	151.4 Hz	None	Narrow
CH10	147.01 MHz	None	023	Narrow

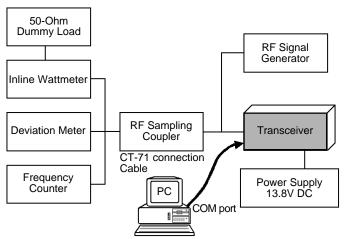
VHF TYPE C

Channel	Frequency (simplex)	CTCSS Encode	DCS Encode	Narrow/wide
CH1	148.01 MHz	None	None	Wide
CH2	161.01 MHz	None	None	Wide
CH3	173.99 MHz	None	None	Wide
CH4	148.01 MHz	None	None	Narrow
CH5	161.01 MHz	None	None	Narrow
CH6	173.99 MHz	None	None	Narrow
CH7	161.01 MHz	151.4 Hz	None	Wide
CH8	161.01 MHz	None	023	Wide
CH9	161.01 MHz	151.4Hz	None	Narrow
CH10	161.01 MHz	None	023	Narrow

PLL & Transmitter

Set up the test equipment as shown for transmitter alignment.

Maintain the supply voltage at 13.8 V DC for all steps.



PLL VCV

- ☐ Connect the positive lead of the DC voltmeter to the test point **TP1007** (VCV) on the Main Unit, as indicated in the figure, and the negative lead to chassis ground.
- ☐ Set the transceiver to the high band edge frequency channel, then adjust **L1021** on the Unit for 4.2 V (VHF-A), 4.3 V (VHF-C) on the voltmeter.
- ☐ Key the transmitter, and adjust **L1022** on the Unit for 4.2 V (VHF-A), 4.3 V (VHF-C) on the voltmeter.
- ☐ Next select to the low edge frequency channel and confirm 0.8 V on the voltmeter.
- ☐ Key the transmitter, and confirm 1.0 V on the voltmeter.

PLL Reference Frequency

With the wattmeter, dummy load and frequency counter connected to the antenna jack, and select band center frequency channel, key the transmitter (Low power level) and adjust **TC1001** on the Main Unit, if necessary, so the counter frequency is within 100 Hz of the channel center frequency for the transceiver version.

Transmitter Output Power

The following transmitter parameters can be adjusted from the computer by utilizing the Alignment Software. Refer to the onboard help of the Alignment Software Manual for details.

HIGH Power $50 \pm 1 \text{ W}$ **LOW Power** $25 \pm 0.5 \text{ W}$

Transmitter Deviation

The following modulation parameters can be adjusted from the computer by utilizing the Alignment Software. Refer to the onboard help of the Alignment Software Manual for details.

Microphone Audio Modulation Level

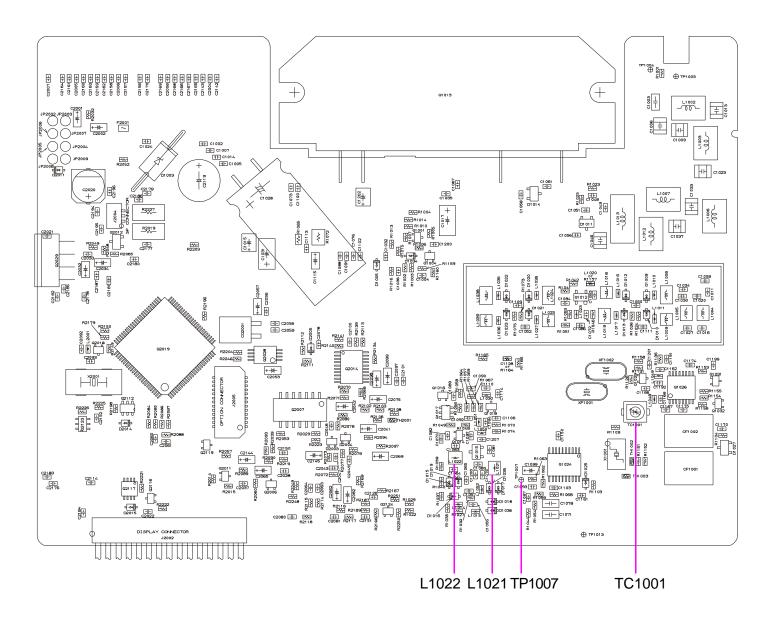
 $4.3 \text{ kHz} \pm 0.1 \text{ kHz}$

CTCSS Modulation Level

 $0.75 \text{ kHz} \pm 0.1 \text{ kHz}$

DCS Modulation Level

 $0.75 \text{ kHz} \pm 0.1 \text{ kHz}$

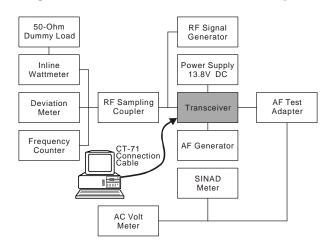


Alignment

Receiver

The sensitivity parameters can be adjusted from the computer by utilizing the Alignment Software. Refer to the onboard help of the Alignment Software Manual for details.

☐ Set up the test equipment as shown for receiver alignment, and install the audio test adapter.



- With the transceiver set to the band center frequency channel, and with the RF signal generator tuned to the same frequency, set the generator for ±3.0 kHz deviation (for 25 kHz steps) with 1 kHz tone modulation, and set the output level for 1µV at the antenna jack.
- Adjust (by control commands from the computer) the receiver front-end tuning for optimum SINAD, reducing signal generator output level as necessary for proper meter deflection.
- After the previous step, the final signal generator level should be less than -8 dBμ (for wide) or -6 dBμ (for narrow) for 12dB SINAD.

Squelch Threshold

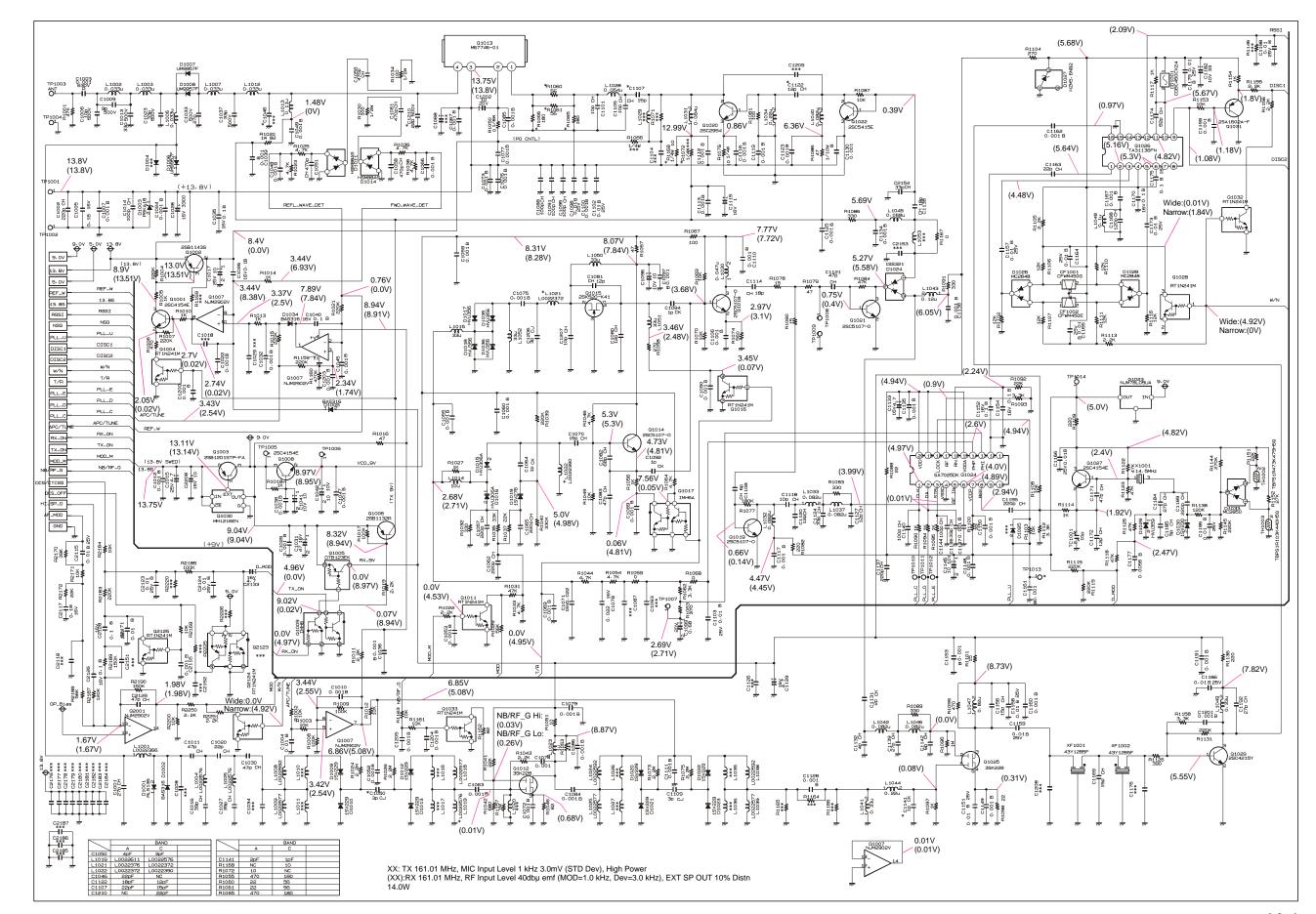
The squelch parameters can also be adjusted from the computer by utilizing the Alignment Software. Refer to the onboard help of the Alignment Software Manual for details.

- \Box Select the band center frequency channel, and with the RF signal generator turned to the same frequency, set the generator for ±3.0 kHz deviation with 1 kHz tone modulation, and set the output level for −6 dB μ (for wide) or −4 dB μ (for narrow) at the antenna jack.
- Adjust the squelch threshold level (by control commands from the computer) such that the squelch just closes at this signal input level (the BUSY LED will turn off).

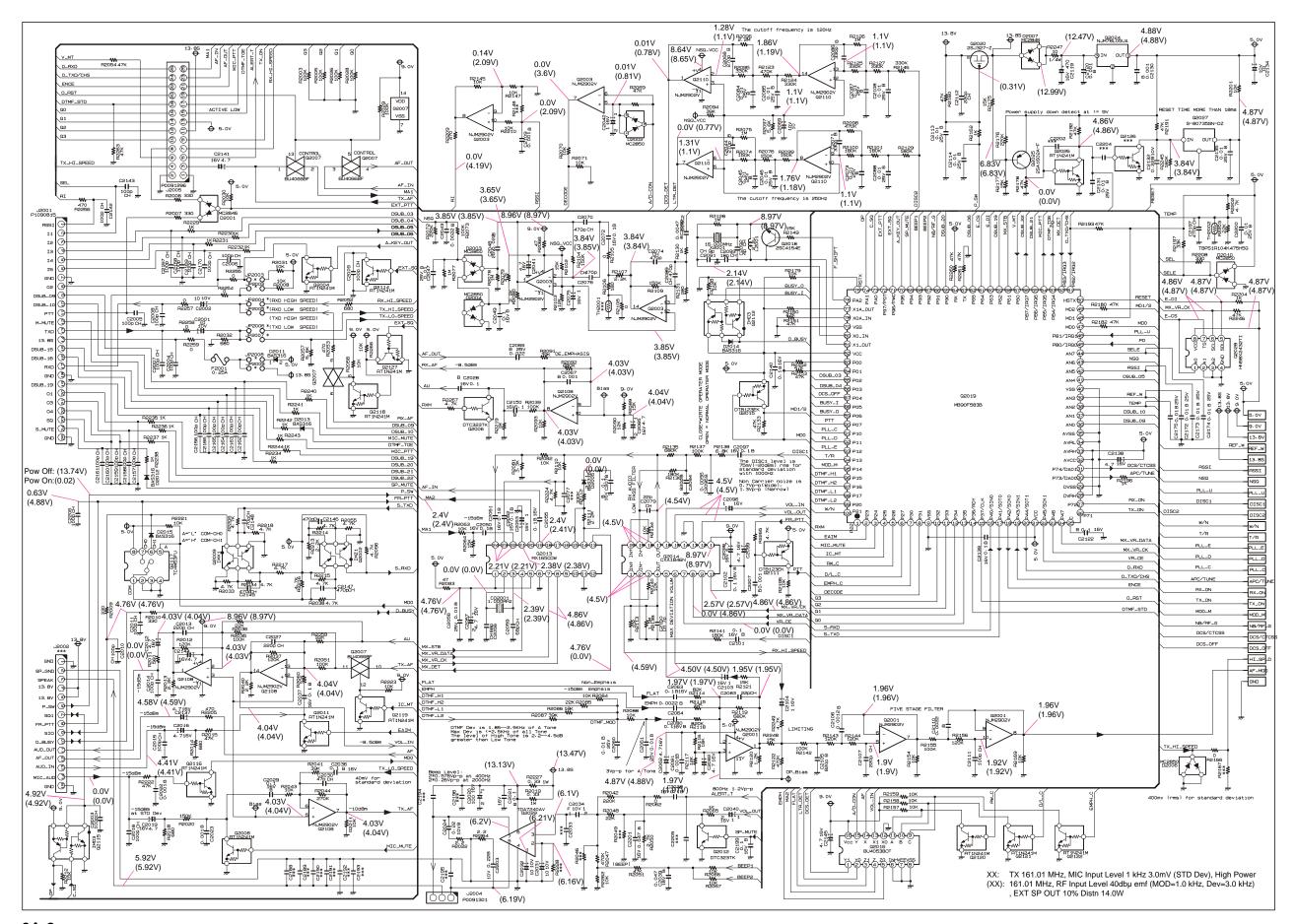
5-4

MAIN Unit (Lot. 1~)

Circuit Diagram



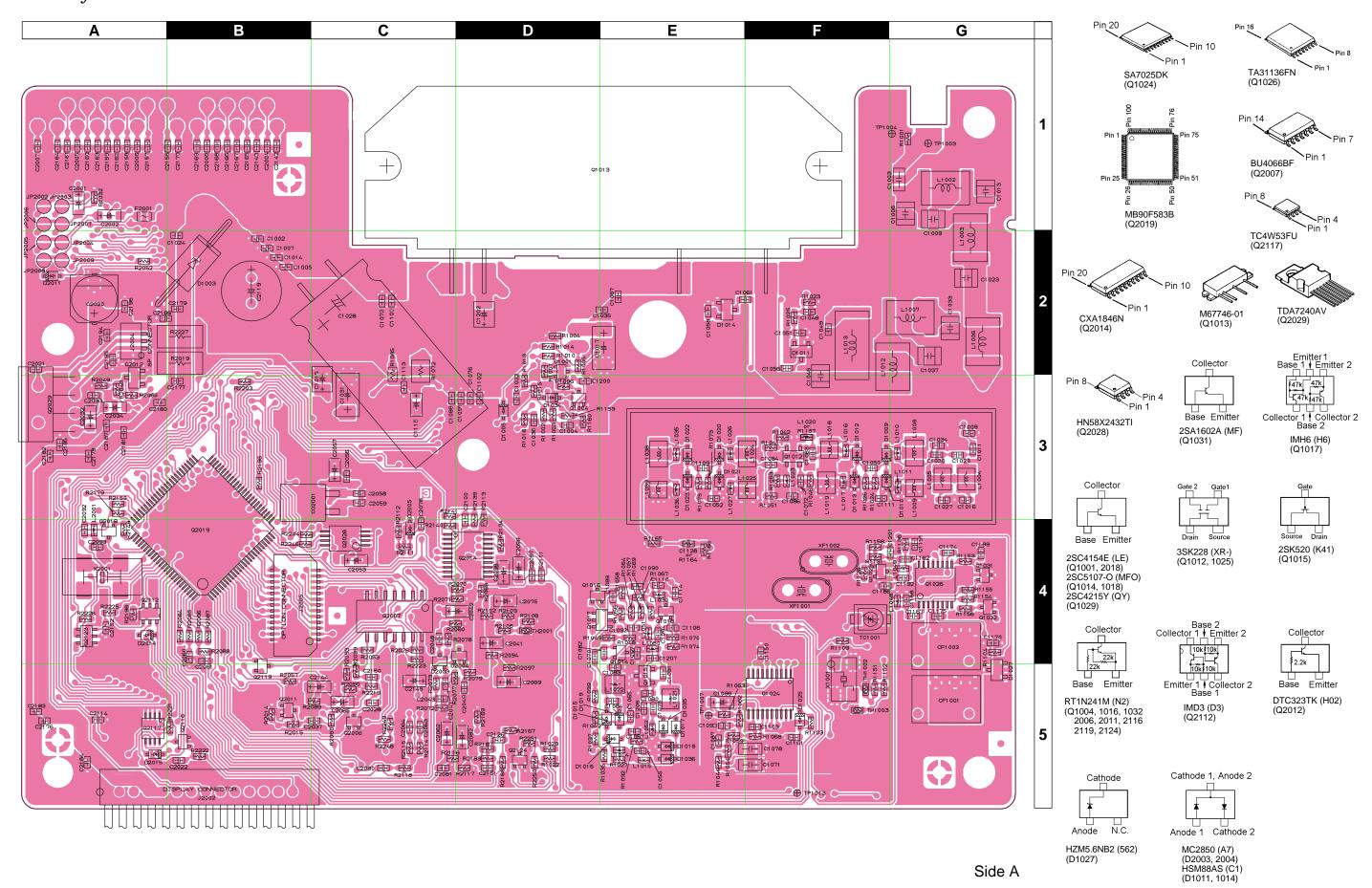
MAIN Unit (Lot. 1~)



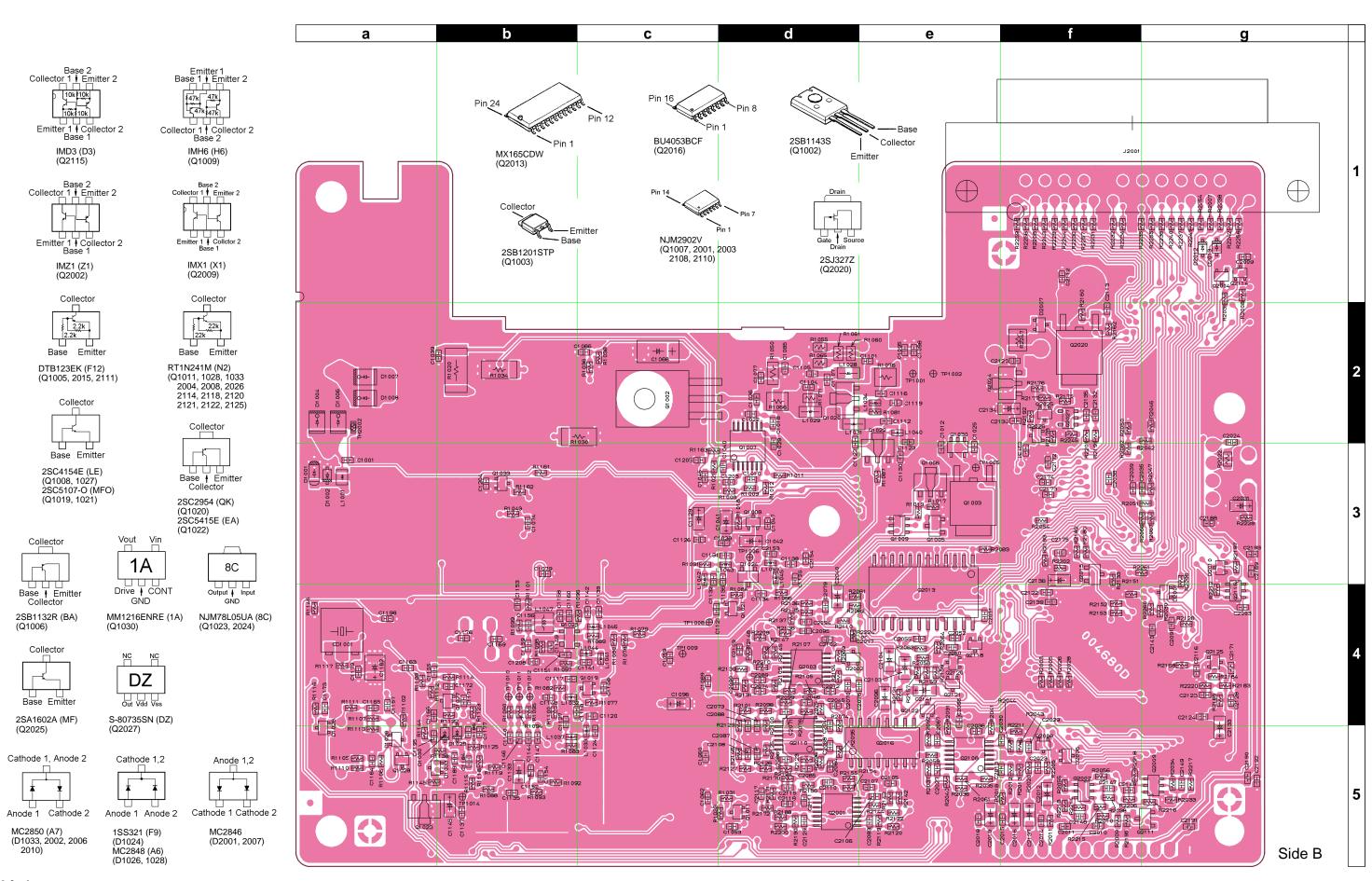
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Parts Layout

MAIN Unit (Lot. 1~)



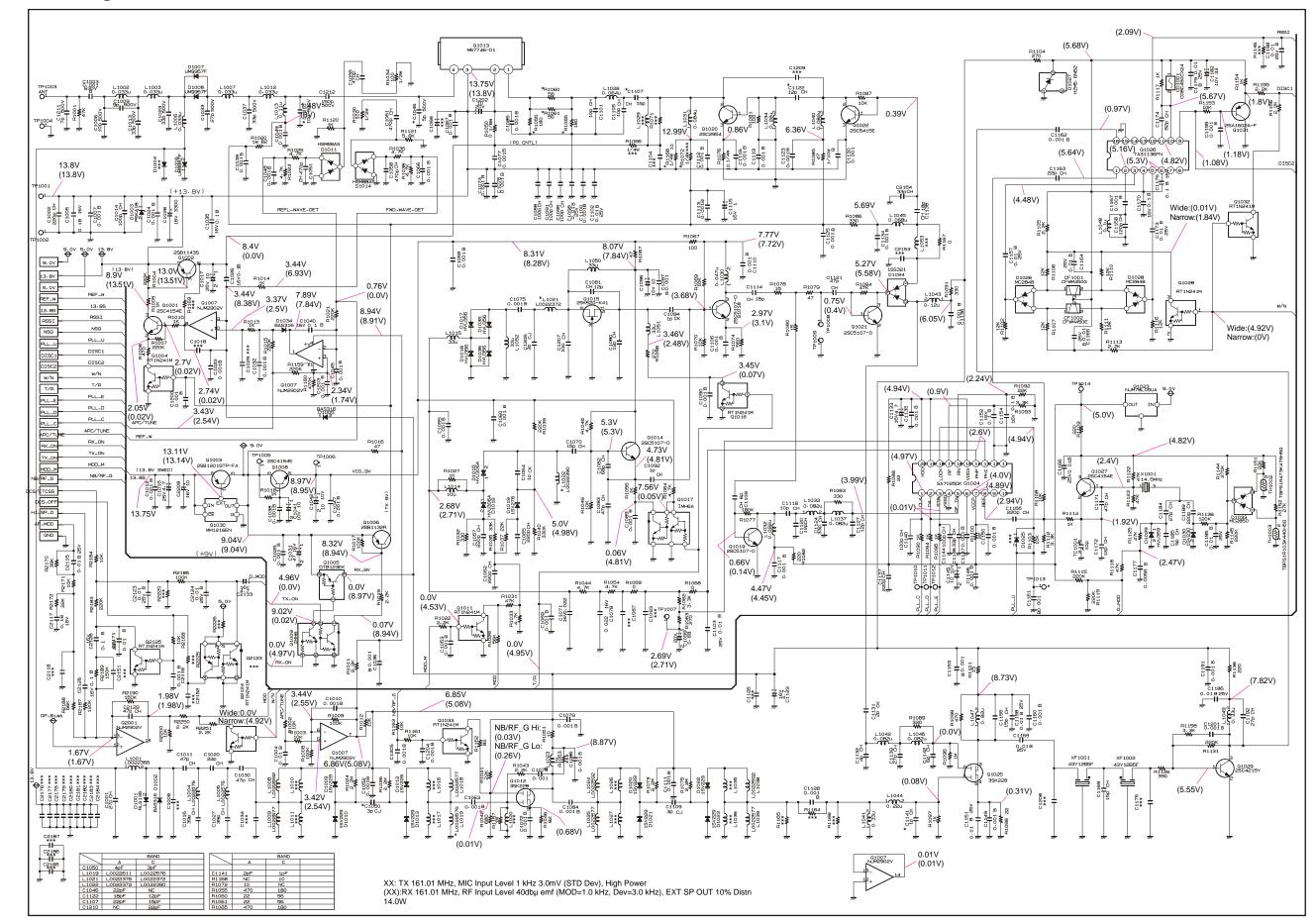
MAIN Unit (Lot. 1~)



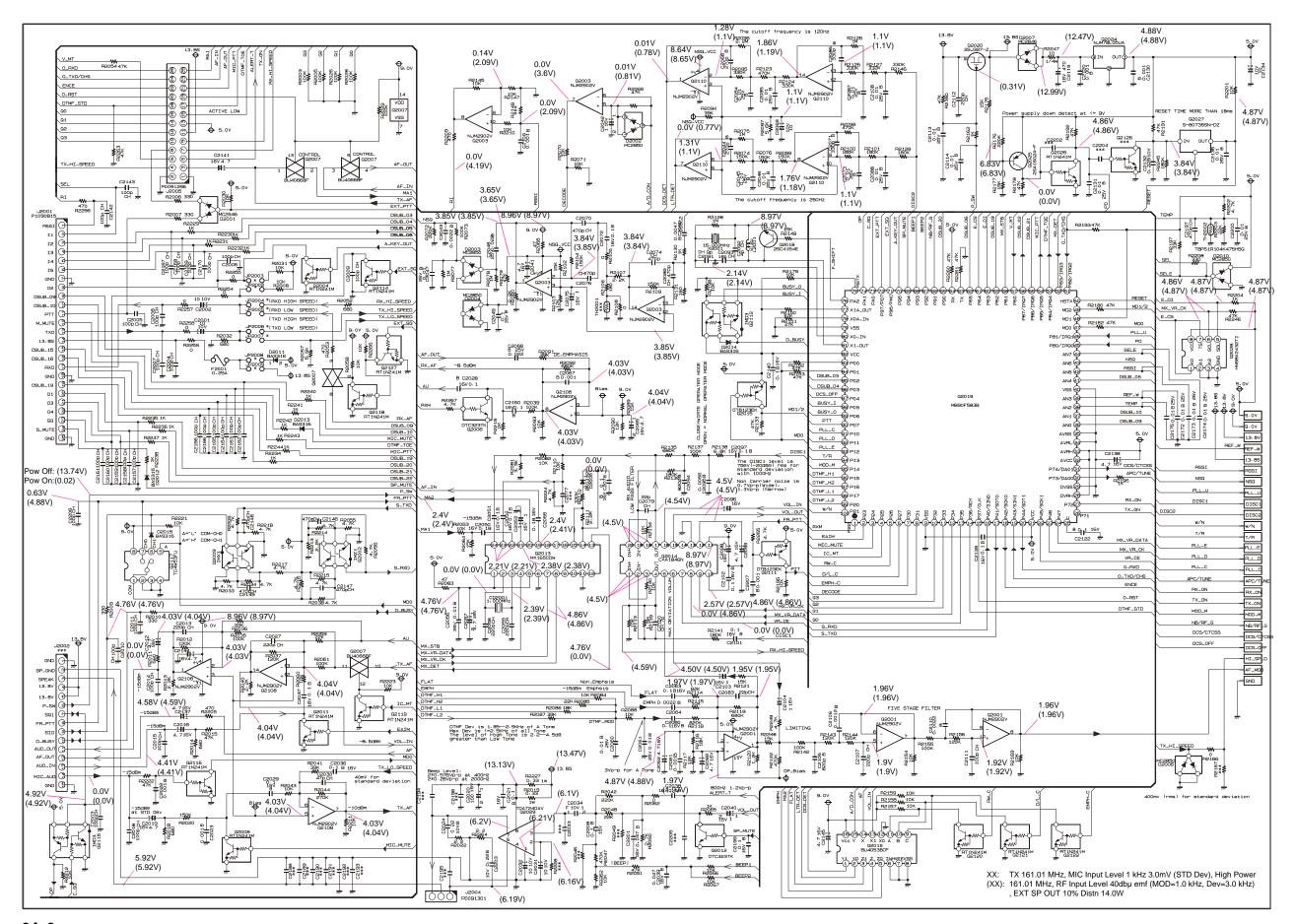
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MAIN Unit (Lot. 4~)

Circuit Diagram



MAIN Unit (Lot. 4~)



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VX-4000 VHF Service Manual

Parts List

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
	PCB with Components			*** MAI	N UNIT ***	CS1728001	VERSION C			
	PCB with Components						VERSION C			
	Printed Circuit Board					FR004680D		1-		
	Printed Circuit Board		-			FR004680E		4-		
C 1001	CHIP CAP.	27pF	50V	CH	GRM39CH270J50PT	K22174221		1-	В	а3
C 1002		220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	Α	B2
C 1003		0.001uF	630V	R	GHM1030R102K630PT	K22281801		1-	Α	G1
C 1004 C 1005	CHIP CAP. CHIP CAP.	0.01uF 0.1uF	50V 16V	B B	GRM39B103M50PT GRM39B104K16PT	K22174823 K22124805		1- 1-	A A	D3 B2
C 1005		10pF	500V	Ь	UC232H0100D-T	K33279019		1- 1-	A	G1
C 1000	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	B2
C 1009	FILM CAP.	9pF	500V		UC232H0090D-T	K33279047		1-	Α	G1
C 1010	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d3
C 1011	CHIP CAP.	47pF	50V	СН	GRM39CH470J50PT	K22174227		1-	Α	G3
C 1012		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e3
C 1013	_	33pF	500V		UC232H0330J-T	K33279024		1-	Α	G1
C 1014		100pF	50V	СН	GRM39CH101J50PT	K22174235		1-	Α	B2
C 1015 C 1015	CHIP TA.CAP. CHIP TA.CAP.	4.7uF 4.7uF	16V 25V		TEMSVB21C475M-8R TEMSVB21E475M-8R	K78120016 K78140019		1- 3-	A A	C3 C3
C 1015		4.7uF 39pF	25 V 50 V	СН	GRM39CH390J50PT	K78140019 K22174225		კ- 1-	A	G3
C 1010	CHIP TA.CAP.	10uF	25V	CII	TEMSVC1E106M12R	K78140021		1-	A	E2
C 1020		22pF	50V	СН	GRM39CH220J50PT	K22174219		1-	A	G3
C 1022	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d2
C 1023	FILM CAP.	33pF	500V		UC232H0330J-T	K33279024		1-	Α	G2
C 1024	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	B2
C 1025	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e3
C 1026		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d2
C 1027	CHIP CAP.	39pF	50V	CH	GRM39CH390J50PT	K22174225		1-	Α	G3
C 1028 C 1030		3300uF 47pF	16V 50V	СН	RE3-16V332M 3300UF GRM39CH470J50PT	K40129065 K22174227		1- 1-	A A	C2 G3
C 1030	CHIP TA.CAP.	68uF	10V	СП	TEMSVC1A686M12R	K78100048		1- 1-	A	C3
C 1031	CHIP TA.CAP.	47uF	16V		TEMSVC1C476M12R	K78120057		4-	A	C3
C 1032	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	D3
C 1033	FILM CAP.	27pF	500V		UC232H0270J-T	K33279023		1-	Α	G2
C 1035	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	E2
C 1036	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	D3
C 1037	FILM CAP.	33pF	500V	_	UC232H0330J-T	K33279024		1-	Α	G2
C 1038		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d3
C 1039		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b2
C 1040 C 1041	CHIP CAP. CHIP TA.CAP.	0.1uF 10uF	16V 10V	В	GRM39B104K16PT TEMSVA1A106M-8R	K22124805 K78100028		1- 1-	B B	d3 d3
C 1041	-	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	В	d3
C 1045		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	c3
C 1046	CHIP CAP.	22pF	500V	СН	GRM42-6CH220J500PT	K22271221		1	Α	F3
C 1046	CHIP CAP.	5pF	500V	CH	GRM42-6CH050C500PT	K22271208		2-3	Α	F3
	FILM CAP.	22pF	500V		UC232H0220J-T	K33279021	VERSION A	4-	Α	F3
C 1046		10pF	500V		UC232H0100D-T	K33279019	VERSION C	4-	Α	F3
C 1047		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d3
C 1048		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	F2
C 1049 C 1050		0.001uF 3pF	50V 50V	B CJ	GRM39B102K50PT GRM39CJ030C50PT	K22174821 K22174204		1- 1-3	A A	F2 F3
C 1050		4pF	50V 50V	CH	GRM39CH040C50PT		VERSION A	1-3 4-	A	F3
C 1050		3pF	50V	CJ	GRM39CJ030C50PT	K22174204	VERSION C		A	F3
C 1051	CHIP CAP.	470pF	50V	CH	GRM39CH471J50PT	K22174249		1-	Α	F2
C 1052		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E3
C 1053	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d5
C 1055		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E5
C 1056		470pF	50V	CH	GRM39CH471J50PT	K22174249		1-	Α	F2
C 1057	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	Α	E5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C 1058	CHIP CAP.	470pF	50V	СН	GRM39CH471J50PT	K22174249		1-	Α	E2
C 1059	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	c4
C 1060	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	с5
C 1061	CHIP CAP.	470pF	50V	CH	GRM39CH471J50PT	K22174249		1-	Α	F2
C 1062		220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	В	с5
C 1063		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	F3
C 1064		1pF	50V	CK	GRM39CK010C50PT	K22174202		1-	Α	E5
C 1065 C 1066		220pF 0.001uF	50V 50V	CH B	GRM39CH221J50PT GRM39B102K50PT	K22174243 K22174821		1- 1-	A B	E5
C 1066	CHIP CAP.	0.001uF 0.001uF	50V 50V	В	GRM39B102K50PT	K22174821 K22174821		1- 1-	А	c2 E2
C 1067		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	c4
C 1003		15pF	50V	СН	GRM39CH150J50PT	K22174021		1-	A	D4
C 1071	FILM CAP.	0.022uF	16V		ECHU1C223JB5	K57120011		1-	A	F5
C 1072		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	F3
C 1073	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	C2
C 1074	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b3
C 1075		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E5
C 1076		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	D3
C 1077	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d2
C 1078	_	0.022uF	16V		ECHU1C223JB5	K57120011		1-	Α	F5
C 1079		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b3
C 1080 C 1081		12pF	50V	CH	GRM39CH120J50PT	K22174213		1-	A	E5
C 1081	CHIP CAP. CHIP CAP.	12pF 68pF	50V 50V	CH CH	GRM39CH120J50PT GRM39CH680J50PT	K22174213 K22174231		1- 1-	A A	E5 E4
C 1082		66рF 47рF	50V	CH	GRM39CH470J50PT	K22174231 K22174227		1-	A	E5
C 1083		0.001uF	50V	В	GRM39B102K50PT	K22174227		1-	A	F3
C 1085		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d2
C 1086		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	F3
C 1088		100pF	50V	СН	GRM39CH101J50PT	K22174235		1-	Α	C3
C 1089	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E4
C 1090	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E4
C 1091	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	Α	D3
C 1092		1pF	50V	CK	GRM39CK010C50PT	K22174202		1-	Α	E4
C 1094		1pF	50V	CK	GRM39CK010C50PT	K22174202		1-	A	E4
C 1095		100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	В	e2
C 1096		10uF	10V	_	TEMSVA1A106M-8R	K78100028		1-	В	c4
C 1097 C 1098	CHIP CAP.	0.001uF 0.01uF	50V 25V	B B	GRM39B102K50PT GRM39B103K25PT	K22174821 K22144803		1- 1-	A B	E4 e2
C 1098		0.68uF	20V	Ь	TESVA1D684M1-8R	K78130009		1-	А	E5
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	C2
C 1101		10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	В	e2
	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	D3
C 1103	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	F5
	CHIP CAP.	10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	В	d2
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	E4
	CHIP CAP.	15pF	50V	CH	GRM39CH150J50PT	K22174215		1-3	В	d2
	CHIP CAP.	22pF	50V	CH	GRM39CH220J50PT		VERSION A	4-	В	d2
	CHIP CAP.	15pF	50V	CH	GRM39CH150J50PT		VERSION C	4-	В	d2
	CHIP CAP.	6pF	50V	CH	GRM39CH060D50PT	K22174207		1-	B	c4
	CHIP CAP. CHIP CAP.	3pF 0.001uF	50V 50V	CJ B	GRM39CJ030C50PT GRM39B102K50PT	K22174204 K22174821		1- 1-	A A	E3 E4
C 1110		0.001uF 0.001uF	50V 50V	В	GRM39B102K50PT	K22174821 K22174821		1- 1-	A	F3
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e2
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	C3
	CHIP CAP.	18pF	50V	CH	GRM39CH180J50PT	K22174217		1-	Α	E4
	CHIP TA.CAP.	1uF	16V		TESVA1C105M1-8R	K78120009		1-	Α	C3
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e2
C 1117	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b4
	CHIP CAP.	10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	В	b4
C 1119	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e2

1112	REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C1122 CHIP CAP.	C 1120	CHIP CAP.	12pF	50V	СН	GRM39CH120J50PT	K22174213		1-	В	c4
C1122 CHIP CAP.	C 1121	CHIP CAP.	•	50V	СН	GRM39CH470J50PT	K22174227		1-	В	c4
C1123 CHIP CAP	C 1122	CHIP CAP.	12pF	50V	СН	GRM39CH120J50PT	K22174213		1-3	В	d2
C1122 CHIP CAP	C 1122	CHIP CAP.	18pF	50V	СН	GRM39CH180J50PT	K22174217	VERSION A	4-	В	d2
C1126 CHIP CAP	C 1122	CHIP CAP.	12pF	50V		GRM39CH120J50PT	K22174213	VERSION C	4-	В	d2
C1127 CHIP CAP.	C 1123				В	GRM39B102K50PT			1-	В	
C1128 CHIP CAP.	_				_				_		
C1129 CHIP TA CAP. 4.7µF 16V TEMSVATA/TSM-8R K78120031 1-1 A E4 C1129 CHIP TA CAP. 4.7µF 16V TEMSVATA/TSM-8R K78120031 1-1 B 6.3 C1130 CHIP CAP. 2.0pF 50V CK GRM39CH02CS0PT K22174203 VERSION A 12- B 6.3 C1131 CHIP CAP. 4.0pF 50V CK GRM39CH02CS0PT K22174203 VERSION A 12- B 6.3 C1131 CHIP CAP. 4.0pF 50V CK GRM39CH02CS0PT K22174203 VERSION A 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH02CS0PT K22174203 VERSION A 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH040CS0PT K22174203 VERSION C 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH040CS0PT K22174203 VERSION C 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH040CS0PT K22174203 VERSION C 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH040CS0PT K22174203 VERSION C 12- B 6.3 C1132 CHIP CAP. 4.0pF 50V CK GRM39CH040CS0PT K22174203 VERSION C 1- B 6.5 C1133 CHIP CAP. 4.0pF 50V B GRM39B102KS0PT K22174203 VERSION C 1- B 6.5 C1133 CHIP CAP. 4.0pF 50V B GRM39B102KS0PT K22174201 1- B 6.5 C1135 CHIP CAP. 4.0pF 50V CK GRM39CH021360PT K22174241 1- B 6.3 C1137 CHIP CAP. 4.0pF 50V CK GRM39CH021360PT K22174241 1- B 6.3 C1139 CHIP CAP. 4.0pF 50V CK GRM39CH021360PT K22174241 1- B 6.3 C1139 CHIP CAP. 4.0pF 50V CK GRM39CH02150PT K22174221 1- B 6.3 C1134 CHIP CAP. 4.0pF 50V CK GRM39CH02050PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50V CK GRM39CH02050PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50V CK GRM39CH080D50PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50V CK GRM39CH080D50PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50V CK GRM39CH080D50PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50V CK GRM39CH080D50PT K22174221 1- B 6.3 C1141 CHIP CAP. 4.0pF 50										_	
C 1130 CHIP TA CAP										_	
C1130 CHIP CAP. A7UF 15V B GRM39B102KS0PT K22174203 A 1 B G3 C1131 CHIP CAP. 2pF 50V CH GRM39CH040C50PT K22174203 KRSION I 1-1 B d3 G1131 CHIP CAP. 2pF 50V CH GRM39CH040C50PT K22174203 KRSION I 1-1 B d3 G1132 CHIP CAP. 4pF 50V CH GRM39CH040C50PT K22174203 KRSION I 1-1 B d3 G1132 CHIP CAP. 4pF 50V CH GRM39CH040C50PT K22174203 KRSION I 1-1 B d3 G1132 CHIP CAP. 4pF 50V CH GRM39CH040C50PT K22174203 KRSION I 1-1 B d3 G1132 CHIP CAP. 47UF 16V TEMSVA1A75M-8R K78120031 4 - B B C3 K78120031 CHIP CAP. 47UF 16V TEMSVA1A75M-8R K78120031 4 - B B C3 K7812033 CHIP CAP. 47UF 16V TEMSVA1C475M-8R K78120031 4 - B B C3 K7812033 CHIP CAP. 47UF 50V B GRM39B102K50PT K22174821 1 - B B C3 K7812033 CHIP CAP. 4.0014F 50V B GRM39B102K50PT K22174821 1 - B B C3 K7812033 CHIP CAP. 4.0014F 50V B GRM39B102K50PT K22174821 1 - B B C3 K7812033 CHIP CAP. 4.0014F 50V CH GRM39CH322150PT K22174221 1 - B B C3 K7812033 CHIP CAP. 4.0014F 50V CH GRM39CH302150PT K22174221 1 - B B C3 K7812033 CHIP CAP. 4.0014F 50V CH GRM39CH101J50PT K22174202 CHIP CAP. 4.0014F 4					В						
C 1131 CHIP CAP.											
C 1131 CHIP CAP.				-	D				-		
C1131 CHIP CAP.									_	_	
C 1132 CHIP CAP.			•					VERSION A		_	
C 1133 CHIP CAP. 4,7uF 10V TEMSVA1A475N-8R K78100022 1- B 505 10133 CHIP TA.CAP. 4,7uF 16V TEMSVA1A475N-8R K78100021 1- B 505 10133 CHIP TA.CAP. 4.7uF 16V TEMSVA1C475M-8R K78100021 1- B 505 10133 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B 505 10135 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B 505 10136 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B 505 10136 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B 505 1138 CHIP CAP. 220pF 50V CH GRM39CH221J50PT K22174221 1- B 505 1138 CHIP CAP. 270pF 50V CH GRM39CH221J50PT K22174221 1- B 505 1138 CHIP CAP. 270pF 50V CH GRM39CH201J50PT K22174221 1- B 505 1138 CHIP CAP. 270pF 50V CH GRM39CH201J50PT K22174221 1- B 505 1140 CHIP CAP. 100pF 50V CH GRM39CH01J50PT K22174221 1- B 505 1141 CHIP CAP. 10pF 50V CK GRM39CH01J50PT K22174202 1- B 505 1141 CHIP CAP. 10pF 50V CK GRM39CH01050PT K22174202 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174202 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174202 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174202 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174203 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174203 VERSION A 4- B C4 1141 CHIP CAP. 10pF 50V CK GRM39CH0050PT K22174203 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM39CH01050PT K22174207 VERSION A 4- B C4 1141 CHIP CAP. 100pF 50V CH GRM			•							_	
C 1133 CHIP TA, CAP.								vertoror o			
C 1133 CHIP TA.CAP.			•		0				_		
C 1135 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B d3 d3 d3 d3 d3 d4 d4 d4										В	
C 1136 CHIP CAP.	C 1134	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d4
C 1137 CHIP CAP.	C 1135	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b5
C 1138 CHIP CAP.	C 1136	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d3
C 1139 CHIP CAP. 27pF 50V CH GRM39CH270J50PT K22174221 1- B 6.7 C 1140 CHIP CAP. 100pF 50V CH GRM39CH101J50PT K22174222 1-3 B 6.5 C 1141 CHIP CAP. 1pF 50V CK GRM39CK010C50PT K22174202 1-3 B c.4 C 1141 CHIP CAP. 2pF 50V CK GRM39CK010C50PT K22174203 VERSION A 4- B c.4 C 1141 CHIP CAP. 1pF 50V CK GRM39CK010C50PT K22174203 VERSION A 4- B c.4 C 1141 CHIP CAP. 1pF 50V CK GRM39CK010C50PT K22174202 VERSION C 4- B c.4 C 1142 CHIP CAP. 1pF 50V CK GRM39CK010C50PT K22174203 VERSION C 4- B c.4 C 1142 CHIP CAP. 100pF 50V CH GRM39CH060D50PT K22174207 1- B c.4 C 1145 CHIP CAP. 100pF 50V CH GRM39CH060D50PT K22174207 1- B c.4 C 1145 CHIP CAP. 100pF 50V CH GRM39CH060D50PT K22174207 1- B b.5 C 1146 CHIP CAP. 33pF 50V CH GRM39CH30J50PT K22174235 1- B b.5 C 1146 CHIP CAP. 0.001uF 50V B GRM39CH30J50PT K22174223 1- B b.5 C 1148 CHIP CAP. 0.001uF 50V B GRM39CH30J50PT K22174821 1- B b.5 C 1148 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b.5 C 1148 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b.5 C 1150 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b.5 C 1150 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b.5 C 1150 CHIP CAP. 0.01uF 16V B GRM39B102K50PT K22174821 1- B b.5 C 1150 CHIP CAP. 0.01uF 16V B GRM39B104K1PT K22144803 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B104K1PT K22144803 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B104K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B104K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174243 1- B b.5 C 1155 CHIP CAP. 0	C 1137	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	В	b5
C 1140 CHIP CAP.			•						1-	В	d3
C 1141 CHIP CAP.			27pF			GRM39CH270J50PT			1-		c4
C 1141 CHIP CAP.											
C 1141 CHIP CAP.	-		•						_		
C 1142 CHIP CAP.			•						-	_	
C 1144 CHIP CAP.			•					VERSION C	-	_	
C 1145 CHIP TA.CAP.			•						-	_	
C 1146 CHIP CAP. 33pF 50V CH GRM39CH330J50PT K22174223 1- B b5 C 1147 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b5 C 1148 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b4 C 1149 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b4 C 1150 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- B b4 C 1150 CHIP CAP. 0.01uF 50V B GRM39B102K50PT K22174821 1- B b4 C 1151 CHIP CAP. 0.01uF 50V B GRM39B103K55PT K22174821 1- B b4 C 1152 CHIP CAP. 0.1uF 16V B GRM39B103K55PT K22144803 1- B b5 C 1153 CHIP CAP. 0.01uF 16V B GRM39B103K50PT K22174821 1- B b5 C 1153 CHIP CAP. 0.1uF 16V B GRM39B102K50PT K22174821 1- B b5 C 1155 CHIP CAP. 0.1uF 16V B GRM39B104K16PT K22124805 1- B b5 C 1155 CHIP CAP. 0.1uF 16V B GRM39B104K16PT K22124805 1- B b5 C 1155 CHIP CAP. 0.01uF 16V B GRM39B104K16PT K22124805 1- B b5 C 1155 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22174243 1- B a4 C 1156 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1157 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1159 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B b4 C 1159 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.01uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1163 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1160 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B b4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.001uF 50V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP.	-				СН						
C 1147 CHIP CAP.		-		-	СП				_		
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C 1154 CHIP CAP.	C 1152	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	b5
C 1155 CHIP CAP.	C 1153	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	b4
C 1156 CHIP CAP.	C 1154	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	b5
C 1157 CHIP CAP. C 1158 CHIP CAP. C 1159 CHIP CAP. C 1159 CHIP CAP. C 1160 CHIP CAP. C 1160 CHIP CAP. C 1161 CHIP CAP. C 1161 CHIP CAP. C 1162 CHIP CAP. C 1163 CHIP CAP. C 1164 CHIP CAP. C 1165 CHIP CAP. C 1166 CHIP CAP. C 1166 CHIP CAP. C 1167 CHIP CAP. C 1168 CHIP CAP. C 1169 CHIP CAP. C 1169 CHIP CAP. C 1160 CHIP CAP. C 1160 CHIP CAP. C 1161 CHIP CAP. C 1162 CHIP CAP. C 1163 CHIP CAP. C 1164 CHIP CAP. C 1165 CHIP CAP. C 1166 CHIP CAP. C 1167 CHIP CAP. C 1168 CHIP CAP. C 1169 CHIP CAP. C 1169 CHIP CAP. C 1160 CHIP CAP. C 1170 CHIP CAP. C 1171 CHIP CAP. C 1172 CHIP CAP. C 1172 CHIP CAP. C 1172 CHIP CAP. C 1174 CHIP CAP. C 1175 CHIP CAP. C 1176 CHIP CAP. C 1177 CHIP CAP. C 1178 CHIP CAP. C 1179 CHIP CAP. C 1170 CHIP CAP. C 1171 CHIP CAP. C 1171 CHIP CAP. C 1172 CHIP CAP. C 1172 CHIP CAP. C 1174 CHIP CAP. C 1175 CHIP CAP. C 1176 CHIP CAP. C 1177 CHIP CAP. C 1177 CHIP CAP. C 1178 CHIP CAP. C 1179 CHIP CAP. C 1171	C 1155	CHIP CAP.	220pF	50V	СН	GRM39CH221J50PT	K22174243		1-	В	a4
C 1158 CHIP CAP. C 1159 CHIP CAP. C 1160 CHIP CAP. C 1160 CHIP CAP. C 1161 CHIP CAP. C 1161 CHIP CAP. C 1162 CHIP CAP. C 1163 CHIP CAP. C 1163 CHIP CAP. C 1164 CHIP CAP. C 1165 CHIP CAP. C 1166 CHIP CAP. C 1166 CHIP CAP. C 1167 CHIP CAP. C 1168 CHIP CAP. C 1169 CHIP CAP. C 1160 CHIP CAP. C 1160 CHIP CAP. C 1161 CHIP CAP. C 1162 CHIP CAP. C 1163 CHIP CAP. C 1164 CHIP CAP. C 1165 CHIP CAP. C 1166 CHIP CAP. C 1167 CHIP CAP. C 1168 CHIP CAP. C 1169 CHIP CAP. C 1169 CHIP CAP. C 1160 CHIP CAP. C 1160 CHIP CAP. C 1161 CHIP CAP. C 1162 CHIP CAP. C 1163 CHIP CAP. C 1164 CHIP CAP. C 1165 CHIP CAP. C 1166 CHIP CAP. C 1167 CHIP CAP. C 1168 CHIP CAP. C 1169 CHIP CAP. C 1160	C 1156		15pF			GRM39CH150J50PT	K22174215			В	b4
C 1159 CHIP CAP.											
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C 1162 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1163 CHIP CAP. 22pF 50V CH GRM39CH220J50PT K22174219 1- B a4 C 1164 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a5 C 1165 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1167 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1167 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1168 CHIP CAP. 120pF 50V CH GRM39CH12J50PT K22174237 1- A G4 C 1169 CHIP CAP. 15pF 50V CH GRM39CH150J50PT K22174215 <											
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C 1164 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a5 C 1165 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1167 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1168 CHIP CAP. 120pF 50V CH GRM39CH12J50PT K22174237 1- A G4 C 1169 CHIP CAP. 15pF 50V CH GRM39CH150J50PT K22174215 1- B b4 C 1170 CHIP CAP. 0.1uF 16V B GRM39CH470J50PT K22174227 1- A G4 C 1172 CHIP CAP. 12pF 50V CH GRM39CH470J50PT K22174213 1- B b4 C 1172											-
C 1165 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1166 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1167 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1168 CHIP CAP. 120pF 50V CH GRM39CH12J50PT K22174237 1- A G4 C 1169 CHIP CAP. 15pF 50V CH GRM39CH150J50PT K22174215 1- B b4 C 1170 CHIP CAP. 0.1uF 16V B GRM39B104K16PT K22124805 1- A G4 C 1171 CHIP CAP. 47pF 50V CH GRM39CH470J50PT K22174227 1- B b4 C 1172 CHIP CAP. 12pF 50V CH GRM39CH120J50PT K22174213 1- B b4											
C 1166 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4 C 1167 CHIP CAP. 0.001uF 50V B GRM39B102K50PT K22174821 1- A G4 C 1168 CHIP CAP. 120pF 50V CH GRM39CH121J50PT K22174237 1- A G4 C 1169 CHIP CAP. 15pF 50V CH GRM39CH150J50PT K22174215 1- B b4 C 1170 CHIP CAP. 0.1uF 16V B GRM39B104K16PT K22124805 1- A G4 C 1171 CHIP CAP. 47pF 50V CH GRM39CH470J50PT K22174227 1- B b4 C 1172 CHIP CAP. 12pF 50V CH GRM39CH120J50PT K22174213 1- B b4											
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C 1170 CHIP CAP. 0.1uF 16V B GRM39B104K16PT K22124805 1- A G4 C 1171 CHIP CAP. 47pF 50V CH GRM39CH470J50PT K22174227 1- B b4 C 1172 CHIP CAP. 12pF 50V CH GRM39CH120J50PT K22174213 1- B b4											
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C 1172 CHIP CAP. 12pF 50V CH GRM39CH120J50PT K22174213 1- B b4											-
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C 1173 CHIP CAP. 0.01uF 25V B GRM39B103K25PT K22144803 1- B a4	C 1173	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	a4

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C 1174	CHIP CAP.	82pF	50V	СН	GRM39CH820J50PT	K22174233		1-	Α	G4
C 1175	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	G4
C 1177	CHIP CAP.	0.0056uF	50V	В	GRM39B562M50PT	K22174818		1-	В	b5
C 1179	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	a4
C 1182	CHIP TA.CAP.	33uF	10V		TEMSVB21A336M-8R	K78100047		1-	В	a4
C 1184	CHIP CAP.	27pF	50V	CH	GRM39CH270J50PT	K22174221		1-	В	b5
C 1185		5pF	50V	CH	GRM39CH050C50PT	K22174206		1-	В	b5
C 1186		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	F4
C 1189	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	В	b5
C 1191	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	G4
C 1192		27pF	50V	CH	GRM39CH270J50PT	K22174221		1-	Α	G4
C 1195	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	a5
C 1198	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	a4
C 1199	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	G4
C 1200	CHIP CAP.	0.001uF	50V	B B	GRM39B102K50PT	K22174821		1-	A	D3 G4
C 1201 C 1202	CHIP CAP. CHIP TA.CAP.	0.001uF 10uF	50V 20V	В	GRM39B102K50PT	K22174821 K78130028		1- 1-	A	G4 D2
C 1202	CHIP CAP.	0.001uF	50V	В	TEMSVB21D106M-8R	K22174821		1- 1-	A B	d3
C 1203	CHIP CAP.	0.001uF 0.001uF	50V	В	GRM39B102K50PT GRM39B102K50PT	K22174621 K22174821		1- 1-	В	us b3
C 1204	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174621 K22174821		1- 1-	В	c3
C 1203	CHIP CAP.	3pF	50V	CJ	GRM39CJ030C50PT	K22174021		1-	A	E5
C 1207	CHIP CAP.	10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	A	E4
C 1210	FILM CAP.	5pF	500V	011	UC232H0050D-T		VERSION C	4-	Α	F2
C 1210	FILM CAP.	2pF	500V		UC232H0020D-T	K33279043	VERSION C	10-	Α	F2
C 1211	CHIP CAP.	10pF	500V	СН	GRM42-6CH100D500PT	K22271213	VERGION	2-3	,,	
C 1212		150pF	300V	CH	GRH111CH151J300	K22253201		2		
C 1212		82pF	500V	СН	GRM42-6CH820J500PT	K22271235		3		
C 1212		150pF	300V	СН	GRH111CH151J300	K22253201	VERSION C	4-		
C 1213		7pF	500V	СН	GRM42-6CH070D500PT	K22271210		2-3		
C 1213	CHIP CAP.	7pF	500V	СН	GRM42-6CH070D500PT	K22271210	VERSION C	4-		
C 1213	CHIP CAP.	5pF	500V	CH	GRM42-6CH050C500PT	K22271208	VERSION C	10-		
C 1214	CHIP CAP.	82pF	500V	CH	GRM42-6CH820J500PT	K22271235		3		
C 2001	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	Α	A1
C 2002	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	Α	A1
C 2003	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	В	g4
C 2004	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	Α	B1
C 2005	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	Α	A1
C 2006	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	Α	A1
C 2007	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	A	A1
	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	A	B1
	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1- 1-	В	g1
	CHIP CAP. CHIP CAP.	100pF 100pF	50V 50V	CH CH	GRM39CH101J50PT GRM39CH101J50PT	K22174235 K22174235		1- 1-	B B	f5 f5
	CHIP CAP.	4.7uF	10V	CIT	TEMSVA1A475M-8R	K78100022		1-	В	15 f5
	CHIP TA.CAP.	4.7uF 4.7uF	16V		TEMSVA1C475M-8R	K78100022		1- 4-	В	f5
	CHIP CAP.	220pF	50V	СН	GRM39CH221J50PT	K22174243		1-	В	f5
	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	В	f5
	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	В	f5
	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	В	f5
	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	В	f5
	CHIP CAP.	100pF	50V	СН	GRM39CH101J50PT	K22174235		1-	В	e5
	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	В	e5
C 2019	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	В	e5
C 2020	AL.ELECTRO.CAP.	100uF	16V		ECEV1CA101WP	K48120012		1-	Α	A2
	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	A2
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	B5
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	f5
	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	g3
	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801		4-	В	g3
C 2027	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	В	e5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C 2028	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	C5
C 2029	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	f5
C 2030	CHIP CAP.	47pF	50V	CH	GRM39CH470J50PT	K22174227		1-	В	f5
C 2031	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	В	g3
C 2032	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	Α	А3
C 2034	CHIP CAP.	1uF	10V	F	GRM39F105Z10PT	K22105001		1-	Α	A3
C 2036	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e5
C 2037	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	C5
C 2038	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	f3
C 2039	CHIP CAP.	0.047uF	16V	В	GRM39B473K16PT	K22124804		1-	В	f3
C 2040	CHIP TA.CAP.	1uF	16V		TESVA1C105M1-8R	K78120009		1-	В	d4
C 2041	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	A	D4
C 2041	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	A	D4
C 2042	CHIP TA.CAP.	1uF	16V	_	TESVA1C105M1-8R	K78120009		1-	A	D4
C 2043 C 2043	CHIP CAP. CHIP CAP.	0.0022uF 0.0022uF	50V 50V	B B	GRM39B222M50PT GRM39B222K50PT	K22174813 K22174822		1- 4-	A A	C5 C5
C 2043	CHIP CAP.	270pF	50V	В	GRM39B271M50PT	K22174622 K22174802		1-	В	d5
C 2044	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22174602 K22144803		1-	В	d3 d4
C 2045	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d4 d4
C 2040	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	A	C5
C 2048	CHIP CAP.	0.022uF	25V	В	GRM39B223K25PT	K22144807		1-	A	C4
C 2049	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	D5
C 2050	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e4
C 2051	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e4
C 2052	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e4
C 2053	CHIP TA.CAP.	1uF	16V		TESVA1C105M1-8R	K78120009		1-	Α	C4
C 2055	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e4
C 2056	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	C3
C 2057	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	C3
C 2057	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	Α	C3
C 2058	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	Α	C3
C 2059	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	Α	C3
C 2060	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	В4
C 2061	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	B4
C 2062	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	C5
C 2062	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	Α	C5
C 2063	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	C5
C 2064	CHIP CAP.	0.0022uF	50V	В	GRM39B222K50PT	K22174822		1-	A	C5
C 2065	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	A	C5
	CHIP TA.CAP. CHIP CAP.	4.7uF 0.022uF	16V 25V	В	TEMSVA1C475M-8R GRM39B223K25PT	K78120031		4- 1-	A B	C5 e4
C 2066	CHIP CAP.	0.022uF 0.001uF	50V	B B		K22144807		1- 1-	В	e4 e5
C 2067 C 2068	CHIP CAP.	270pF	50V	В	GRM39B102K50PT GRM39B271M50PT	K22174821 K22174802		1-	В	es d5
C 2068	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	А	D5
	CHIP CAP.	470pF	50V	СН	GRM39CH471J50PT	K22174249		1-	В	d4
C 2071	CHIP CAP.	330pF	50V	В	GRM39B331K50PT	K22174249 K22174820		1-	В	d4 d4
		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d4
C 2073		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5
	CHIP CAP.	470pF	50V	CH	GRM39CH471J50PT	K22174249		1-	В	d4
C 2075	CHIP TA.CAP.	1uF	16V		TESVA1C105M1-8R	K78120009		1-	Α	D4
C 2076	CHIP CAP.	470pF	50V	СН	GRM39CH471J50PT	K22174249		1-	В	d4
C 2078	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	C4
C 2079	CHIP CAP.	22pF	50V	СН	GRM39CH220J50PT	K22174219		1-	В	d4
C 2080	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	C5
C 2081	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	C5
C 2082	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	D5
		4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	Α	D5
C 2083	CHIP CAP.	22pF	50V	CH	GRM39CH220J50PT	K22174219		1-	В	e5
C 2084	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5
C 2085	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C 2086	CHIP CAP.	330pF	50V	В	GRM39B331K50PT	K22174820		1-	В	d5
C 2087	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5
C 2088	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5
C 2089	CHIP CAP.	470pF	50V	СН	GRM39CH471J50PT	K22174249		1-	В	d4
C 2090	CHIP CAP.	0.0047uF	50V	В	GRM39B472M50PT	K22174817		1-	В	d4
C 2090	CHIP CAP.	0.0047uF	50V	В	GRM39B472K50PT	K22174833		4-	В	d4
C 2091	CHIP CAP.	9pF	50V	CH	GRM39CH090D50PT	K22174210		1-	В	g4
C 2092	CHIP CAP.	4pF	50V	CH	GRM39CH040C50PT	K22174205		1-	Α	A4
C 2093	CHIP CAP.	18pF	50V	CH	GRM39CH180J50PT	K22174217		1-	Α	A4
C 2094	CHIP CAP.	820pF	50V	В	GRM39B821M50PT	K22174808		1-	В	d4
C 2095	CHIP CAP.	0.0056uF	50V	В	GRM39B562M50PT	K22174818		1-	В	d4
C 2096		1uF	16V		TESVA1C105M1-8R	K78120009		1-	В	e4
C 2097	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	D4
C 2098	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	D4
C 2098	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	Α	D4
C 2099	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	D4
C 2099		4.7uF	16V	۵.,	TEMSVA1C475M-8R	K78120031		4-	A	D4
C 2100	CHIP CAP.	7pF	50V	CH	GRM39CH070D50PT	K22174208		1-	A	D4
C 2101	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	A	D4
C 2102		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d4
C 2103		1uF	16V 16V		TESVA1C105M1-8R	K78120009		1-	B B	e4
C 2104 C 2105		1uF		_	TESVA1C105M1-8R	K78120009		1- 1-	В	e4
C 2105	CHIP CAP. CHIP CAP.	820pF 0.0012uF	50V 50V	B B	GRM39B821M50PT GRM39B122K50PT	K22174808 K22174826		1-	В	e5
C 2106	CHIP CAP.	220pF	50V	CH	GRM39CH221J50PT	K22174626 K22174243		1- 1-	В	e5 e5
C 2107		0.01uF	25V	В	GRM39B103K25PT	K22174243 K22144803		1-	В	d5
C 2108		0.01uF	50V	В	GRM39B102K50PT	K22174821		1-	В	d3 d4
C 2110		0.001di 0.0022uF	50V	В	GRM39B222K50PT	K22174822		1-	В	d5
C 2111	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	В	d5
C 2112		220pF	50V	CH	GRM39CH221J50PT	K22174243		1-	В	f1
C 2113		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	f2
C 2114		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	A	A5
C 2115	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	d5
C 2116	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	g4
C 2117	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d5
C 2119	AL.ELECTRO.CAP.	470uF	16V		RE3-16V471M 470UF	K40129066		1-	Α	B2
C 2120	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	f2
C 2122	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	f4
C 2123	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	g4
C 2124	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	g4
C 2126	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	D5
	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	g4
	CHIP CAP.	47pF	50V	CH	GRM39CH470J50PT	K22174227		1-	В	d5
	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	f2
	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	f3
	CHIP CAP.	0.22uF	10V	В	GRM39B224K10PT	K22104801		1-	В	f2
	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	В	g5
	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	В	g5
	CHIP TA.CAP.	10uF	10V	В	TEMSVA1A106M-8R	K78100028		1-	В	f2
	CHIP CAP.	0.01uF 4.7uF	25V 10V	В	GRM39B103K25PT	K22144803		1- 1-	B B	f2 f5
	CHIP TA.CAP. CHIP TA.CAP.	4.7uF 4.7uF	16V		TEMSVA1A475M-8R TEMSVA1C475M-8R	K78100022 K78120031		1- 4-	В	15 f5
	CHIP TA.CAP.	4.7uF 4.7uF	10V		TEMSVA1C475M-8R	K78120031 K78100022		4- 1-	В	15 f3
	CHIP TA.CAP.	4.7uF 4.7uF	16V		TEMSVA1C475M-8R	K78100022 K78120031		1- 4-	В	f3
	CHIP TA.CAP.	4.7uF 0.1uF	16V	В	GRM39B104K16PT	K22124805		4- 1-	В	f4
	CHIP CAP.	0.1uF 0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	g4
	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	В	e4
	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		4-	В	e4
	CHIP CAP.	100pF	50V	СН	GRM39CH101J50PT	K22174235		1-	A	B1
	CHIP CAP.	100pF	50V	CH	GRM39CH101J50PT	K22174235		1-	Α	B1
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C2144 CHIPTA CAPE	REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C2146 CHIPTA CAP. 47.0F 19V TEMSWAICA75M-RR X79100021 1. A C5	C 2144	CHIP TA.CAP.	4.7uF	10V		TEMSVA1A475M-8R	K78100022		1-	Α	C5
C 2145 CHIP TA CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2146 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2146 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2146 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2147 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2147 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V C C C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B 15 GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B 15 GRM39847/MSDPT K22174249 4 B 15 C 2148 CHIP CAP. 470F 50V B 15 GRM39847/MSDPT K22174249 4 B 15 C 2149 CHIP CAP. 470F 50V B 15 GRM39847/MSDPT K22174249 4 B 15 C 2149 CHIP CAP. 0.14F 16V B 16V	_		-	-							
C 2146 CHIP TA CAP. 470F 50V B GRM38P4TM50PT K22174305 1- 8 15 5 6 5 6 5 6 2146 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174305 1- 8 15 5 6 5 6 2146 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 15 5 6 6 2147 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 15 5 6 6 2146 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 15 5 6 6 2146 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 15 5 6 6 2 4 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 15 5 6 6 2 4 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH47L50PT K22174205 1- 8 16 5 6 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH50FT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V CHIP CAP. 470F 50V CH GRM38CH10150PT K22174205 1- A A 11 CHIP CAP. 470F 50V C											
C 2146 CHIP CAP. 470pF 50V B CH GRM39CH7150PT K22174249 4-8 B 15 C 2147 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2147 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2148 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2148 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2148 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2149 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2149 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2149 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2140 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2140 CHIP CAP. 470pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2150 CHIP CAP. 33pF 50V CH GRM39CH7150PT K22174249 4-8 B 15 C 2150 CHIP CAP. 100pF 50V CH GRM39CH7150PT K22174235 1-1 A B 16 C 2150 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A B 16 C 2150 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2150 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A A 17 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A B 18 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A B 18 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A B 18 C 2160 CHIP CAP. 100pF 50V CH GRM39CH10150PT K22174235 1-1 A B 18 C 2160 CHIP CAP. 100pF 50V CH GRM39C											
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C2146 CHIP CAP.	C 2147	CHIP CAP.		50V		GRM39B471M50PT	K22174805		1-	В	f5
C2148	C 2147	CHIP CAP.		50V		GRM39CH471J50PT	K22174249		4-	В	
C2149 CHIP CAP.	C 2148	CHIP CAP.		50V	В	GRM39B471M50PT	K22174805		1-	В	f5
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D 1003 SURGE ABSORBER P6KA18 Q9000721 1- A B1 D 1005 DIODE BAS316 G2070716 1- A D3 D 1006 DIODE UM9957F/TR G2070562 1- B a2 D 1007 DIODE UM9957F/TR G2070562 1- B a2 D 1008 DIODE UM9957F/TR G2070562 1- B a2 D 1009 DIODE 1SV229 TPH3 G2070256 1- A F3 D 1010 DIODE 1SV229 TPH3 G2070256 1- A F3	D 1001	DIODE				RLS135 TE-11	G2070128		1-	В	a3
D 1005 DIODE BAS316 G2070716 1- A D3 D 1006 DIODE UM9957F/TR G2070562 1- B a2 D 1007 DIODE UM9957F/TR G2070562 1- B a2 D 1008 DIODE UM9957F/TR G2070562 1- B a2 D 1009 DIODE 1SV229 TPH3 G2070256 1- A F3 D 1010 DIODE 1SV229 TPH3 G2070256 1- A F3	D 1002	DIODE				BAS316	G2070716		1-	В	a3
D 1006 DIODE UM9957F/TR G2070562 1- B a2 D 1007 DIODE UM9957F/TR G2070562 1- B a2 D 1008 DIODE UM9957F/TR G2070562 1- B a2 D 1009 DIODE 15V229 TPH3 G2070256 1- A F3 D 1010 DIODE 15V229 TPH3 G2070256 1- A F3	D 1003	SURGE ABSORBER				P6KA18	Q9000721		1-	Α	В1
D 1007 DIODE UM9957F/TR G2070562 1- B a2 D 1008 DIODE UM9957F/TR G2070562 1- B a2 D 1009 DIODE 1SV229 TPH3 G2070256 1- A F3 D 1010 DIODE 1SV229 TPH3 G2070256 1- A F3	D 1005	DIODE				BAS316	G2070716		1-	Α	D3
D 1008 DIODE UM9957F/TR G2070562 1- B a2 D 1009 DIODE 1SV229 TPH3 G2070256 1- A F3 D 1010 DIODE 1SV229 TPH3 G2070256 1- A F3	D 1006	DIODE				UM9957F/TR	G2070562		1-	В	a2
D 1009 DIODE 1SV229 TPH3 G2070256 1- A F3 1SV229 TPH3 G2070256 1- A F3	D 1007	DIODE				UM9957F/TR	G2070562		1-	В	a2
D 1010 DIODE 1SV229 TPH3 G2070256 1- A F3	D 1008	DIODE				UM9957F/TR	G2070562		1-	В	a2
	D 1009	DIODE				1SV229 TPH3	G2070256		1-	Α	F3
D 1011 DIODE HSM88AS TR G2070170 1- A F2	D 1010	DIODE				1SV229 TPH3	G2070256		1-	Α	F3
<u> </u>	D 1011	DIODE				HSM88AS TR	G2070170		1-	Α	F2

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
D 1012	DIODE				1SV229 TPH3	G2070256		1-	Α	F3
	DIODE				1SV229 TPH3	G2070256		1-	Α	F3
	DIODE				HSM88AS TR	G2070170		1-	Α	E2
D 1015	DIODE				HVU306A5TRF	G2070132		1-	Α	E5
D 1016	DIODE				HVU306A5TRF	G2070132		1-	Α	E5
D 1017	DIODE				HVU356TRF	G2070306		1-	Α	E5
D 1018	DIODE				HVU356TRF	G2070306		1-	Α	E5
D 1019	DIODE				1SV276(TPH3)	G2070420		1-	Α	E5
D 1020	DIODE				1SV229 TPH3	G2070256		1-	Α	E3
D 1021	DIODE				1SV229 TPH3	G2070256		1-	Α	E3
D 1022	DIODE				1SV229 TPH3	G2070256		1-	Α	E3
	DIODE				1SV229 TPH3	G2070256		1-	Α	E3
	DIODE				1SS321 TE85R	G2070076		1-	В	d3
	DIODE				MC2848-T11-1	G2070694		1-	В	a5
	DIODE				HZM5.6NB2 TR	G2070722		1-	Α	G5
	DIODE				MC2848-T11-1	G2070694		1-	В	a5
	DIODE				HVU359TRF	G2070452		1-	В	b5
	DIODE				1SV230 TPH3	G2070126		1-	В	b5
	SURGE ABSORBER				P6KA18	Q9000721		1-	_	
	DIODE				MC2850-T11-1	G2070704		1-	В	a5
	DIODE				BAS316	G2070716		1-	A	D3
	DIODE				HVU356TRF	G2070306		1-	A	E5
	DIODE				HVU356TRF	G2070306		1-	A	E5
	DIODE				MC2846-T11-1	G2070702		1-	В	g4
	DIODE				MC2850-T11-1	G2070704		1-	В	d4
	DIODE DIODE				MC2850-T11-1	G2070704		1- 1-	A A	C4 D4
	DIODE				MC2850-T11-1 BAS316	G2070704 G2070716		1- 1-	A	C4
	DIODE				MC2850-T11-1	G2070716		1- 1-	В	f5
	DIODE				MC2846-T11-1	G2070704 G2070702		1-	В	f2
	DIODE				MC2850-T11-1	G2070702		1-	В	g3
	DIODE				BAS316	G2070704		1-	A	A2
					BAS316	G2070716		1-	В	g1
	DIODE				BAS316	G2070716		1-	В	g1
	DIODE				BAS316	G2070716		1-	Α	A4
D 2015	DIODE				BAS316	G2070716		1-	Α	A5
F 2001	CHIP FUSE	0.25A			KAB-2402-251NA31	Q0000085		1-	Α	A1
J 2001	CONNECTOR				JBY-25S-1A3F	P1090815		1-	В	f1
J 2004	CONNECTOR				BM03B-SRSS-TBT	P0091301		1-	Α	A2
J 2005	CONNECTOR				AXN426C530P	P0091296		1-	Α	B4
L 1001	COIL				E2 0.28-1.0-6T-R	L0022366		1-	В	a3
L 1002	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	G1
L 1003	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	G2
L 1004	COIL				E2 0.25-1.85-8.5T-L	L0022576		1-	Α	G3
	COIL				E2 0.25-1.85-8.5T-L	L0022576		1-	Α	G3
L 1006	COIL	0.033uH			AS1005-33NK	L0022546		1-	Α	G2
L 1007	COIL	0.033uH			AS1005-33NK	L0022546		1-	A	G2
L 1008	COIL				E2 0.25-1.9-12T-L	L0022592		1-	A	G3
	COIL	0.000			E2 0.35-1.6-4.5T-L	L0022577		1-	A	G3
	COIL COIL	0.033uH			AS1005-33NK	L0022546		1-	A	G2
		0.11uH			AS0810-B0NK	L0022542		1- 1-	A	F2 E5
L 1014 L 1015	M.RFC M.RFC	10uH 33uH			LK1608 100K-T LK1608 330M-T	L1690689 L1690690		1- 1-	A A	E5 E5
	COIL	JJU∏			E2 0.35-1.6-4.5T-L	L1690690 L0022577		1- 1-	A	F3
	COIL				E2 0.25-1.6-4.51-L E2 0.25-1.85-8.5T-L	L0022577 L0022576		1-3	A	F3
L 1019	COIL				E2 0.25-1.9-8.5T-L	L0022576 L0022611	VERSION A	1-3 4-	A	F3
L 1019	COIL				E2 0.25-1.85-8.5T-L	L0022576	VERSION C		A	F3
L 1019	COIL				E2 0.3-1.7-7T-R	L0022370		1-3	A	E5
L 1021	COIL				E2 0.3-1.7-8T-L	L0022372	VERSION A	4-	A	E5
L 1021	COIL				E2 0.3-1.7-7T-R	L0022372	VERSION C		A	E5
					l	I			<u> </u>	-

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
L 1022	COIL				E2 0.35-1.6-7T-L	L0022390		1-3	Α	E5
L 1022	COIL				E2 0.3-1.7-7T-R	L0022372	VERSION A	4-	Α	E5
L 1022	COIL				E2 0.35-1.6-7T-L	L0022390	VERSION C	4-	Α	E5
L 1023	M.RFC	1uH			LK1608 1R0K-T	L1690687		1-	Α	F3
L 1024	COIL				E2 0.25-1.9-12T-L	L0022592		1-	Α	F3
L 1025	COIL				E2 0.35-1.6-4.5T-L	L0022577		1-	Α	F3
L 1028	CHIP COIL	0.064uH			LQN1A64NJ04	L1690258		1-	В	d2
L 1030	M.RFC	0.047uH			HK1608 47NJ-T	L1690524		1-	Α	E4
L 1031	CHIP COIL	0.084uH			LQN1A84NJ04	L1690259		1-	В	d2
L 1032	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	b4
L 1033	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	c5
L 1034	M.RFC	0.22uH			LK1608 R22K-T	L1690410		1-	В	e2
L 1037	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	b5
L 1038 L 1039	COIL				E2 0.25-1.9-12T-L E2 0.35-1.6-4.5T-L	L0022592 L0022577		1- 1-	A A	E3 E3
L 1039	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1- 1-	В	e2
L 1040	M.RFC	0.33uH			LK1608 R33K-T	L1690327		1-	В	c4
L 1041	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	c3
L 1043	M.RFC	0.12uH			LK1608 R12K-T	L1690408		1-	В	d3
L 1043	M.RFC	0.12uH			LK1608 R22K-T	L1690410		1-	В	c4
L 1045	M.RFC	0.068uH			HK1608 68NJ-T	L1690526		1-	В	d3
L 1046	M.RFC	0.082uH			HK1608 82NJ-T	L1690527		1-	В	c4
L 1047	CHIP COIL	0.82uH			C2520C-R82J	L1690555		1-	В	b4
L 1048	M.RFC	0.1uH			HK1608 R10J-T	L1690528		1-	Α	G4
L 1049	M.RFC	0.33uH			LK1608 R33K-T	L1690412		1-	Α	G4
L 1050	M.RFC	33uH			LK1608 330M-T	L1690690		1-	Α	E4
L 1051	M.RFC	33uH			LK1608 330M-T	L1690690		1-	Α	E4
L 1052	M.RFC	33uH			LK1608 330M-T	L1690690		1-	Α	E5
L 2001	M.RFC	2.2uH			LK1608 2R2K-T	L1690634		1-	Α	A4
Q 1001	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	Α	D2
Q 1002					2SB1143S	G3211430S		1-	В	d2
Q 1003	TRANSISTOR				2SB1201S-TL	G3070195		1-	В	e3
Q 1004 Q 1005	TRANSISTOR TRANSISTOR				RT1N241M-T11-1 DTB123EK T146	G3070249 G3070022		1- 1-	A B	D3 e3
Q 1005 Q 1006	TRANSISTOR				2SB1132 T100 R	G3070022 G3211327R		1- 1-	В	e3
Q 1000					NJM2902V-TE1	G1091679		1-	В	d3
Q 1007	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	В	d3
Q 1009	TRANSISTOR				IMH6A T108	G3070066		1-	В	e3
Q 1011	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	d5
Q 1012					3SK228XR-TR	G4802287		1-	A	F3
Q 1013					M67746-01	G1092992		1-	Α	C1
Q 1014	TRANSISTOR				2SC5107-O(TE85R)	G3351077O		1-	Α	E4
Q 1015	FET				2SK520-T2B K41	G3805207A		1-	Α	E5
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	Α	D4
	TRANSISTOR				IMH6A T108	G3070066		1-	Α	E4
	TRANSISTOR				2SC5107-O(TE85R)	G3351077O		1-	Α	E4
	TRANSISTOR				2SC5107-O(TE85R)	G3351077O		1-	В	c4
	TRANSISTOR				2SC2954-T2	G3329547		1-	В	d2
	TRANSISTOR				2SC5107-O(TE85R)	G33510770		1-	В	d4
	TRANSISTOR				2SC5415E-TD	G3354158E		1-	В	e3
Q 1023 Q 1024					NJM78L05UA TE1	G1091325		1- 1-	B	a5 F5
Q 1024 Q 1025					SA7025DK 3SK228XR-TR	G1093014 G4802287		1- 1-	A B	ь 54
Q 1025 Q 1026					TA31136FN(EL)	G4602267 G1091605		1- 1-	А	04 G4
	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	В	b4
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	a5
	TRANSISTOR				2SC4215Y TE85R	G3342157Y		1-	A	F4
Q 1030					MM1216ENRE	G1092432		1-	В	e3
	TRANSISTOR				2SA1602A-T11-1F	G3116028F		1-	A	G4
Q 1032	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	Α	G4
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REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
Q 1033	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	b3
Q 2001	IC				NJM2902V-TE1	G1091679		1-	В	d5
Q 2002	TRANSISTOR				IMZ1 T108	G3070025		1-	В	f5
Q 2003	IC				NJM2902V-TE1	G1091679		1-	В	d4
Q 2004	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	g1
Q 2006	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	Α	C5
Q 2006	TRANSISTOR				DTC323TK T146	G3070042		4-	Α	C5
Q 2007					BU4066BF-E2	G1092593		1-	Α	C4
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	f5
	TRANSISTOR				IMX1 T110	G3070024		1-	В	g5
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	A	B5
	TRANSISTOR				DTC323TK T146	G3070042		1-	Α	A3
Q 2013					MX165CDW-TR	G1092775		1-	В	e4
Q 2014					CXA1846N-T4	G1092690		1- 1-	A B	D4
Q 2015 Q 2016	TRANSISTOR				DTB123EK T146 BU4053BCF-E2	G3070022 G1092723		1-	В	f3
	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	А	e5 A4
Q 2019					MB90F583B R0509	G3341346E		1-	A	B4
Q 2019					MB90F583B R0526	G1093538		3-	A	B4
Q 2019					MB90F583B(FLASH)	G1093338		10-	A	B4
Q 2020					2SJ327-Z-E1	G4070010		1-	В	f2
Q 2024					NJM78L05UA TE1	G1091325		1-	В	f2
	TRANSISTOR				2SA1602A-T11-1F	G3116028F		1-	В	f2
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	f2
Q 2027					S-80735SN-DZ-T1	G1091876		1-	В	f2
Q 2027	IC				S-80835CNMC-B8U-T2	G1093606		13-	В	f2
Q 2028	IC				HN58X2432TI	G1093315		1-	Α	C4
Q 2029	IC				TDA7240AV	G1091020		1-	Α	А3
Q 2108	IC				NJM2902V-TE1	G1091679		1-	В	e5
Q 2110	IC				NJM2902V-TE1	G1091679		1-	В	d5
Q 2111	TRANSISTOR				DTB123EK T146	G3070022		1-	В	g5
Q 2112	TRANSISTOR				IMD3 T108	G3070053		1-	Α	A4
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	g1
	TRANSISTOR				IMD3 T108	G3070053		1-	В	g4
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	Α	B5
Q 2117					TC4W53FU TE12L	G1091675		1-	Α	A5
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	e4
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	Α	B5
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	e4
	TRANSISTOR TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	e4
	TRANSISTOR				RT1N241M-T11-1 RT1N241M-T11-1	G3070249 G3070249		1- 1-	B A	e4 D5
	TRANSISTOR				RT1N241M-T11-1	G3070249 G3070249		1-	В	g4
	TRANSISTOR				RT1N241M-T11-1	G3070249 G3070249		4-	В	f3
	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	A	G1
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	D3
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	D3
	CHIP RES.	220k	1/16W		RMC1/16 224JATP	J24185224		1-	Α	D2
R 1005	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	Α	D2
	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	Α	D3
R 1007	CHIP RES.	220k	1/16W		RMC1/16 224JATP	J24185224		1-	Α	D2
	CHIP RES.	100k	1/16W		RMC1/16 104JATP	J24185104		1-	В	d3
	CHIP RES.	100k		5%	RMC1/16 104JATP	J24185104		1-	В	d3
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	Α	D2
	CHIP RES.	2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	d3
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d3
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	Α	D3
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	Α	D2
	CHIP RES.	220k	1/16W		RMC1/16 224JATP	J24185224		1-	A	D3
R 1016	CHIP RES.	47	1/16W	5%	RMC1/16 470JATP	J24185470		1-	Α	D3

 $[\]boldsymbol{\times}$ Requires Firmware, CE35 and FIF-8. 6A-18

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 1017	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	еЗ
R 1018	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	В	d3
R 1019	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	e3
R 1020	CHIP RES.	82	1W	5%	RMC1 820JTE	J24305820		1-	В	b2
R 1021	CHIP RES.	220k		5%	RMC1/16 224JATP	J24185224		1-	В	c3
R 1022		2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	Α	D5
R 1023		4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	Α	F2
R 1024		2.2M	1/16W	5%	RMC1/16 225JATP	J24185225		1-	A	F3
R 1025		4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	A	F2
R 1026 R 1027		2.2M	1/16W 1/16W	5% 5%	RMC1/16 225JATP	J24185225		1- 1-	A A	F3 E5
R 1027		1k 56k	1/16W	5% 5%	RMC1/16 102JATP RMC1/16 563JATP	J24185102 J24185563		1- 1-	A	D5
R 1029		100	1/10W	5%	RMC1/2 101JCTP	J24105505 J24275101		1-	В	c2
R 1031	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	d5
R 1032		330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	A	E5
R 1033		4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	d5
R 1034		100	1/2W	5%	RMC1/2 101JCTP	J24275101		1-	В	b2
R 1035		33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	Α	E5
R 1036	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	c2
R 1037	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	Α	D5
R 1038	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	c2
R 1039	CHIP RES.	220k	1/16W	5%	RMC1/16 224JATP	J24185224		1-	Α	D5
R 1040	CHIP RES.	330k	1/16W	5%	RMC1/16 334JATP	J24185334		1-	Α	D5
R 1041	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	Α	F3
R 1042		680	1/16W	5%	RMC1/16 681JATP	J24185681		1-	Α	F3
R 1043		2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	b3
R 1044		4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	Α	E5
R 1046		82	1/16W	5%	RMC1/16 820JATP	J24185820		1-	A	F3
R 1048		4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	A	E4
R 1049		10k	1/16W 1/8W	5% 5%	RMC1/16 103JATP RMC1/8T 000J	J24185103		1- 1-	A	E4
R 1050 R 1051		0 10	1/6W	5% 5%	RMC1/16 100JATP	J24215000 J24185100		1- 1-	B A	d2 F3
R 1051		4.7k	1/16W	5% 5%	RMC1/16 472JATP	J24185472		1- 1-	A	E5
R 1055		4.7K 470	1/10W	5%	RMC1/10T 471J	J24105472 J24205471		1-3	В	d2
R 1055		470	1/10W	5%	RMC1/10T 471J	J24205471	VERSION A	4-	В	d2
R 1055		180		5%	RMC1/10T 181J	J24205181	VERSION C		В	d2
R 1056		1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	Α	E4
R 1057	CHIP RES.	47	1/16W	5%	RMC1/16 470JATP	J24185470		1-	Α	E4
R 1058	CHIP RES.	270	1/16W	5%	RMC1/16 271JATP	J24185271		1-	Α	E4
R 1059	CHIP RES.	0	1/16W		RMC1/16 000JATP	J24185000		1-	Α	E5
R 1060	CHIP RES.	22	1/10W	5%	RMC1/10T 220J	J24205220		1-3	В	d2
R 1060	CHIP RES.	22	1/10W	5%	RMC1/10T 220J	J24205220	VERSION A	4-	В	d2
	CHIP RES.	56		5%	RMC1/10T 560J	J24205560	VERSION C	4-	В	d2
R 1061		22	1/10W		RMC1/10T 220J	J24205220		1-3	В	d2
R 1061		22	1/10W		RMC1/10T 220J	J24205220	VERSION A		В	d2
R 1061		56	1/10W		RMC1/10T 560J	J24205560	VERSION C		В	d2
	CHIP RES.	3.3k	1/16W		RMC1/16 332JATP	J24185332		1-	A	E5
	CHIP RES.	270	1/16W		RMC1/16 271JATP	J24185271		1-	A	E5
R 1064 R 1065		4.7k 470	1/16W 1/10W		RMC1/16 472JATP RMC1/10T 471J	J24185472 J24205471		1- 1-3	A B	E4 d2
	CHIP RES.	470	1/10W		RMC1/10T 471J	J24205471 J24205471	VERSION A	_	В	d2 d2
	CHIP RES.	180		5% 5%	RMC1/10T 181J	J24205471 J24205181	VERSION A		В	d2 d2
	CHIP RES.	100		5%	RMC1/161 101JATP	J24205101 J24185101	VERGIOIN O	1-	A	E4
R 1068		0		5%	RMC1/16 000JATP	J24185000		1-	A	F5
	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	A	E4
	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	A	E4
R 1072		10	1/4W	5%	RMC1/4 100JATP	J24245100		1-3	Α	C2
	CHIP RES.	10	1/4W	5%	RMC1/4 100JATP	J24245100	VERSION A	4-	Α	C2
R 1073	CHIP RES.	2.2M		5%	RMC1/16 225JATP	J24185225		1-	Α	E3
R 1074	CHIP RES.	560	1/16W	5%	RMC1/16 561JATP	J24185561		1-	Α	E4

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 1075	CHIP RES.	2.2M	1/16W	5%	RMC1/16 225JATP	J24185225		1-	Α	E3
R 1076	CHIP RES.	10	1/4W	5%	RMC1/4 100JATP	J24245100		1-	В	e2
R 1077	CHIP RES.	180k		5%	RMC1/16 184JATP	J24185184		1-	В	с4
R 1078	CHIP RES.	15	1/16W	5%	RMC1/16 150JATP	J24185150		1-	В	c4
R 1079	CHIP RES.	47	1/16W	5%	RMC1/16 470JATP	J24185470		1-	В	c4
R 1080	CHIP RES. CHIP RES.	15 100		5% 5%	RMC1/16 150JATP	J24185150		1- 1-	B B	c4
R 1081 R 1082	CHIP RES.	220	1/16W 1/16W	5%	RMC1/16 101JATP RMC1/16 221JATP	J24185101 J24185221		1-	В	e2 b4
R 1083	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	b5
R 1084	CHIP RES.	47k		5%	RMC1/16 473JATP	J24185473		1-	В	d4
R 1085	CHIP RES.	47	1/10W	5%	RMC1/10T 470J	J24205470		1-	Α	C2
R 1086	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	d4
R 1087	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	В	e3
R 1088	CHIP RES.	22	1/16W	5%	RMC1/16 220JATP	J24185220		1-	В	b5
R 1089	CHIP RES.	330		5% 5%	RMC1/16 331JATP	J24185331		1- 1-	B B	c4 b4
R 1090 R 1091	CHIP RES. CHIP RES.	1k 330	1/16W	5% 5%	RMC1/16 102JATP RMC1/16 331JATP	J24185102 J24185331		1-	В	c3
R 1091	CHIP RES.	22k		5%	RMC1/16 223JATP	J24185223		1-	В	b5
R 1093	CHIP RES.	3.3k	1/16W	5%	RMC1/16 332JATP	J24185332		1-	В	b5
R 1094	CHIP RES.	1k		5%	RMC1/16 102JATP	J24185102		1-	В	b4
R 1095	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	В	b4
R 1096	CHIP RES.	1M		5%	RMC1/16 105JATP	J24185105		1-	В	с4
R 1097	CHIP RES.	1k		5%	RMC1/16 102JATP	J24185102		1-	В	b4
R 1098	CHIP RES.	22	1/16W	5%	RMC1/16 220JATP	J24185220		1-	В	b4
R 1099	CHIP RES.	470		5%	RMC1/16 471JATP	J24185471		1-	В	b4
R 1100 R 1101	CHIP RES. CHIP RES.	22 15	1/16W 1/16W	5% 5%	RMC1/16 220JATP RMC1/16 150JATP	J24185220 J24185150		1- 1-	B B	b4 b4
R 1101	CHIP RES.	12k		5%	RMC1/16 123JATP	J24185123		1-	В	a4
R 1103	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	F5
R 1104	CHIP RES.	270		5%	RMC1/16 271JATP	J24185271		1-	Α	G4
R 1105	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	a5
R 1106	CHIP RES.	12k		5%	RMC1/16 123JATP	J24185123		1-	В	a5
R 1107	CHIP RES.	12k		5%	RMC1/16 123JATP	J24185123		1-	В	a4
R 1108	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	a4
R 1109	CHIP RES.	220 12k	1/16W 1/16W	5% 5%	RMC1/16 221JATP	J24185221 J24185123		1- 1-	A B	F4
R 1110 R 1111	CHIP RES. CHIP RES.	12k 12k	1/16W	5% 5%	RMC1/16 123JATP RMC1/16 123JATP	J24185123 J24185123		1-	В	a5 a4
R 1112	CHIP RES.	3.3k		5%	RMC1/16 332JATP	J24185332		1-	В	a4 a4
R 1113	CHIP RES.	2.2k		5%	RMC1/16 222JATP	J24185222		1-	В	a5
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	b4
R 1115	CHIP RES.	220k	1/16W	5%	RMC1/16 224JATP	J24185224		1-	В	b5
	CHIP RES.	12k	1/16W		RMC1/16 123JATP	J24185123		1-	В	a4
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	a4
	CHIP RES.	47k		5%	RMC1/16 473JATP	J24185473		1-	В	b5
R 1119 R 1120	CHIP RES. CHIP RES.	220k 1k	1/16W 1/10W		RMC1/16 224JATP RMC1/10T 102J	J24185224 J24205102		1- 2-3	В	b5
R 1120	CHIP RES.	1k	1/10W		RMC1/10T 102J	J24205102 J24205102	VERSION C	2-3 4-		
R 1121	CHIP RES.	5.6k	1/10W		RMC1/10T 562J	J24205102 J24205562	VERGIOIN O	2-3		
R 1121	CHIP RES.	5.6k	1/16W		RMC1/16 562JATP	J24185562	VERSION C	4-		
R 1122		47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	b4
R 1123	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	b4
R 1125	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	b5
R 1126		390	1/16W		RMC1/16 391JATP	J24185391		1-	Α	F4
R 1131	CHIP RES.	220k		5%	RMC1/16 224JATP	J24185224		1-	A	F4
R 1136 R 1138	CHIP RES. CHIP RES.	220 120k	1/16W 1/16W		RMC1/16 221JATP RMC1/16 124JATP	J24185221 J24185124		1- 1-	A B	G4 b5
R 1138	CHIP RES.	120k 270k	1/16W		RMC1/16 124JATP RMC1/16 274JATP	J24185124 J24185274		1-	В	рэ a5
R 1144	CHIP RES.	270k 220k	1/16W		RMC1/16 224JATP	J24185224		1-	В	a5 a5
R 1151	CHIP RES.	22k	1/16W		RMC1/16 223JATP	J24185223		1-	A	F5
R 1152		27k	1/16W		RMC1/16 273JATP	J24185273		1-	Α	F5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 1153	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	G4
R 1154	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	Α	G4
R 1155	CHIP RES.	2.2k		5%	RMC1/16 222JATP	J24185222		1-	Α	G4
R 1156	CHIP RES.	2.2k		5%	RMC1/16 222JATP	J24185222		1-	Α	G4
R 1157	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	Α	F3
R 1158	CHIP RES.	3.3k		5%	RMC1/16 332JATP	J24185332		1-	Α	F4
R 1159	CHIP RES.	220k		5%	RMC1/16 224JATP	J24185224		1-	A	D3
R 1160 R 1161	CHIP RES. CHIP RES.	470k		5%	RMC1/16 474JATP	J24185474		1-	A	D3
R 1161	CHIP RES.	10k 82	1/16W 1/16W	5% 5%	RMC1/16 103JATP RMC1/16 820JATP	J24185103 J24185820		1- 1-	B B	b3 b3
R 1163	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	В	c3
R 1167	CHIP RES.	0		5%	RMC1/16 000JATP	J24185000		1-	В	d3
R 1168	CARBON FILM RES.	150	1/4W	5%	RD14SJ151 150	J02245151		1-3	A	C2
R 1168	CHIP RES.	10	1/4W	5%	RMC1/4 100JATP	J24245100	VERSION C	4-	Α	C2
R 2003	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	f4
R 2005	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	f4
R 2006	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	g3
R 2007	CHIP RES.	330		5%	RMC1/16 331JATP	J24185331		1-	В	g1
R 2008	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	В	g1
R 2009	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	f5
R 2010	CHIP RES.	330		5%	RMC1/16 331JATP	J24185331		1-	В	f5
R 2011	CHIP RES. CHIP RES.	560		5% 5%	RMC1/16 561JATP	J24185561		1-	В	f5
R 2012 R 2013	-	120k 2.2k		5% 5%	RMC1/16 124JATP RMC1/16 222JATP	J24185124 J24185222		1- 1-	B B	f5 f5
R 2013	CHIP RES.	2.2K 680	1/16W	5% 5%	RMC1/16 681JATP	J24185681		1- 1-	А	15 B5
R 2015	CHIP RES.	47k		5%	RMC1/16 473JATP	J24185473		1-	A	B5
R 2018	CHIP RES.	680		5%	RMC1/16 681JATP	J24185681		1-	В	f5
R 2019	CHIP RES.	0.33	1W	10%	RMC1 R33KATE	J24309001		1-	A	B2
R 2020	CHIP RES.	150k		5%	RMC1/16 154JATP	J24185154		1-	В	f5
R 2022	CARBON FILM RES.	2.2	1/6W	5%	RD16UJ2R2 2.2	J02225229		1-	В	g2
R 2022	CHIP RES.	2.2	1/16W	5%	RMC1/16 2R2JATP	J24185229		4-	В	g2
R 2026	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	f4
R 2028	CHIP RES.	100k		5%	RMC1/16 104JATP	J24185104		1-	В	f4
R 2029	CHIP RES.	100k		5%	RMC1/16 104JATP	J24185104		1-	Α	C4
R 2030	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	g4
R 2031	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	В	g1
R 2032 R 2033	CHIP RES. CHIP RES.	680 4.7k		5% 5%	RMC1/16 681JATP RMC1/16 472JATP	J24185681 J24185472		1- 1-	A B	A1
R 2034		4.7k 4.7k	1/16W		RMC1/16 472JATP	J24185472		1- 1-	В	g5 g5
	CHIP RES.	100k	1/16W		RMC1/16 104JATP	J24185104		1-	В	95 e5
R 2036	CHIP RES.	22k	1/16W		RMC1/16 223JATP	J24185223		1-	В	e5
R 2037	CHIP RES.	120k	1/16W		RMC1/16 124JATP	J24185124		1-	В	e5
R 2038	CHIP RES.	4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	f5
R 2039	CHIP RES.	100k	1/16W		RMC1/16 104JATP	J24185104		1-	Α	C5
R 2040	CHIP RES.	2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	e5
R 2041	CHIP RES.	39k	1/16W		RMC1/16 393JATP	J24185393		1-	В	e5
R 2042	CHIP RES.	220k	1/16W		RMC1/16 224JATP	J24185224		1-	В	g2
R 2043		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	f5
R 2044		270k	1/16W		RMC1/16 274JATP	J24185274		1-	В	f5
R 2047		470k	1/16W		RMC1/16 474JATP	J24185474		1-3	B	g3
R 2048 R 2050	CHIP RES. CHIP RES.	22k 2.7k	1/16W 1/16W		RMC1/16 223JATP RMC1/16 272JATP	J24185223 J24185272		1- 1-	A B	A3 f2
R 2050	CHIP RES.	2.7k 47k	1/16W		RMC1/16 272JATP RMC1/16 473JATP	J24185272 J24185473		1- 1-	В	12 g3
R 2051	CHIP RES.	2.2M	1/16W		RMC1/16 225JATP	J24185225		4-	В	g3
R 2052	CHIP RES.	680	1/16W		RMC1/16 681JATP	J24185681		1-	A	93 A2
R 2053	CHIP RES.	470	1/16W		RMC1/16 471JATP	J24185471		1-	Α	C4
R 2054	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f3
R 2055		4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	f5
R 2056	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	f5
R 2057	CHIP RES.	5.6k	1/16W	5%	RMC1/16 562JATP	J24185562		1-	Α	B5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 2058	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	e4
R 2059	CHIP RES.	22k		5%	RMC1/16 223JATP	J24185223		1-	В	e5
R 2060	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	C5
R 2061	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	e5
		0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	f3
		10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	e4
R 2064	CHIP RES.	15k		5%	RMC1/16 153JATP	J24185153		1-	В	e4
R 2065	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	Α	A3
		10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	g3
		10k 47	1/16W 1/16W	5% 5%	RMC1/16 103JATP RMC1/16 470JATP	J24185103 J24185470		1- 1-	B A	g3 D4
		47 47k		5%	RMC1/16 473JATP	J24185470 J24185473		1-	В	d4
R 2070	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	04 D4
	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	D4
	CHIP RES.	220k	1/16W	5%	RMC1/16 224JATP	J24185224		1-	Α	C5
R 2073	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	Α	C5
R 2074	CHIP RES.	150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	В	d5
R 2075	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	В	d4
		150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	В	d4
		1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	Α	C5
	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	Α	C4
		47k		5%	RMC1/16 473JATP	J24185473		1-	A	D5
R 2080 R 2081		2.2k 3.3k	1/16W 1/16W	5% 5%	RMC1/16 222JATP RMC1/16 332JATP	J24185222		1- 1-	A B	D4 d4
	CHIP RES. CHIP RES.	3.3k 10k	1/16W	5% 5%	RMC1/16 332JATP	J24185332 J24185103		1- 1-	В	d4 d4
		47	1/16W	5%	RMC1/16 470JATP	J24185470		1-	В	e3
R 2084	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	B4
R 2085	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	Α	B4
		18k	1/16W	5%	RMC1/16 183JATP	J24185183		1-	Α	В4
R 2087	CHIP RES.	39k	1/16W	5%	RMC1/16 393JATP	J24185393		1-	Α	B4
R 2088	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	B4
R 2089	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	Α	C5
R 2090	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123		1-	Α	C5
R 2091	CHIP RES.	39k	1/16W	5%	RMC1/16 393JATP	J24185393		1-	В	e5
		680k	1/16W	5%	RMC1/16 684JATP	J24185684		1-	В	e5
		10k 39k	1/16W 1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	C5
R 2094 R 2095	CHIP RES. CHIP RES.	330k	1/16W	5% 5%	RMC1/16 393JATP RMC1/16 334JATP	J24185393 J24185334		1- 1-	A B	D4 d5
	CHIP RES.	2.2M	1/16W		RMC1/16 225JATP	J24185225		1-	В	d5
	CHIP RES.	5.6k	1/16W		RMC1/16 562JATP	J24185562		1-	A	D5
	CHIP RES.	470k	1/16W		RMC1/16 474JATP	J24185474		1-	В	d4
	CHIP RES.	150k	1/16W		RMC1/16 154JATP	J24185154		1-	В	d4
	CHIP RES.	180k	1/16W	5%	RMC1/16 184JATP	J24185184		1-	В	d5
	CHIP RES.	180k	1/16W		RMC1/16 184JATP	J24185184		1-	В	d4
	CHIP RES.	15k	1/16W		RMC1/16 153JATP	J24185153		1-	Α	D4
	CHIP RES.	12k	1/16W		RMC1/16 123JATP	J24185123		1-	Α	D4
	CHIP RES.	150k	1/16W		RMC1/16 154JATP	J24185154		1-	В	d4
	CHIP RES.	0	1/16W		RMC1/16 000JATP	J24185000		1-	В	d4
	CHIP RES. CHIP RES.	180 2.2k	1/16W 1/16W		RMC1/16 181JATP RMC1/16 222JATP	J24185181 J24185222		1- 1-	A B	D4 d4
	CHIP RES.	2.2K 0	1/16W		RMC1/16 222JATP	J24185222 J24185000		1- 1-	A	04 D4
	CHIP RES.	150k	1/16W		RMC1/16 154JATP	J24185154		1-	В	d4
	CHIP RES.	10k		5%	RMC1/16 103JATP	J24185103		1-	В	d4
	CHIP RES.	2.2M	1/16W		RMC1/16 225JATP	J24185225		1-	A	C4
	CHIP RES.	330k	1/16W		RMC1/16 334JATP	J24185334		1-	Α	C4
	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	D4
	CHIP RES.	82k	1/16W	5%	RMC1/16 823JATP	J24185823		1-	Α	C5
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	C5
	CHIP RES.	18k	1/16W		RMC1/16 183JATP	J24185183		1-	Α	C5
R 2117	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123		1-	Α	D5

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 2118	CHIP RES.	820k	1/16W	5%	RMC1/16 824JATP	J24185824		1-	Α	C5
R 2119	CHIP RES.	680k	1/16W		RMC1/16 684JATP	J24185684		1-	В	e5
R 2120	CHIP RES.	1.2k	1/16W		RMC1/16 122JATP	J24185122		1-	В	e5
R 2121	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	В	e4
R 2122	CHIP RES.	470k	1/16W	5%	RMC1/16 474JATP	J24185474		1-	В	e5
R 2123	CHIP RES.	470k	1/16W	5%	RMC1/16 474JATP	J24185474		1-	В	d5
R 2124	CHIP RES.	330k	1/16W	5%	RMC1/16 334JATP	J24185334		1-	В	d5
R 2125	CHIP RES.	330k		5%	RMC1/16 334JATP	J24185334		1-	В	d5
R 2126		1M	1/16W		RMC1/16 105JATP	J24185105		1-	В	d5
R 2127	CHIP RES.	330k	1/16W		RMC1/16 334JATP	J24185334		1-	В	d5
R 2128		1M		5%	RMC1/16 105JATP	J24185105		1-	В	g4
R 2129	CHIP RES.	180k	1/16W		RMC1/16 184JATP	J24185184		1-	В	d5
R 2130 R 2131	CHIP RES. CHIP RES.	1k	1/16W 1/16W		RMC1/16 102JATP	J24185102		1-	B B	d4 d4
R 2131		180 47k	1/16W		RMC1/16 181JATP RMC1/16 473JATP	J24185181 J24185473		1- 1-	В	f4
R 2134		10k		5%	RMC1/16 103JATP	J24185103		1-	A	D4
R 2135	CHIP RES.	680k		5%	RMC1/16 684JATP	J24185684		1-	В	d4
R 2136		180k		5%	RMC1/16 184JATP	J24185184		1-	В	d4
R 2137	CHIP RES.	100k	1/16W		RMC1/16 104JATP	J24185104		1-	В	d4
R 2138		6.8k	1/16W		RMC1/16 682JATP	J24185682		1-	В	d4
R 2139	CHIP RES.	1.5M		5%	RMC1/16 155JATP	J24185155		1-	Α	D4
R 2140		10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	C4
R 2141	CHIP RES.	180k	1/16W		RMC1/16 184JATP	J24185184		1-	Α	C3
R 2142	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	В	e5
R 2143	CHIP RES.	120k	1/16W	5%	RMC1/16 124JATP	J24185124		1-	В	e5
R 2144	CHIP RES.	120k	1/16W	5%	RMC1/16 124JATP	J24185124		1-	В	e5
R 2145	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	d4
R 2146	CHIP RES.	330k	1/16W	5%	RMC1/16 334JATP	J24185334		1-	В	d5
R 2147	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d4
R 2149		15k	1/16W		RMC1/16 153JATP	J24185153		1-	Α	A4
R 2150		47k		5%	RMC1/16 473JATP	J24185473		1-	Α	A3
R 2151	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	g4
R 2152	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f4
R 2153	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f4
R 2154		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d5
R 2155		100k		5%	RMC1/16 104JATP	J24185104		1-	В	d5
R 2156 R 2157	CHIP RES. CHIP RES.	120k 10k		5% 5%	RMC1/16 124JATP RMC1/16 103JATP	J24185124 J24185103		1-	B B	d5 e4
R 2158		10k 10k	1/16W		RMC1/16 103JATP	J24185103		1- 1-	В	e4
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	e4
R 2160		47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f2
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	f2
R 2166		0	1/16W		RMC1/16 000JATP	J24185000		1-	A	D5
R 2168		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	g4
	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	D5
R 2170		39k	1/16W		RMC1/16 393JATP	J24185393		1-	В	d5
R 2171	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d5
R 2172	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	В	d5
R 2175		15k	1/16W		RMC1/16 153JATP	J24185153		1-	В	f2
	CHIP RES.	220k	1/16W		RMC1/16 224JATP	J24185224		1-	В	f2
R 2177		15k	1/16W		RMC1/16 153JATP	J24185153		1-	В	f2
R 2178		47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f2
R 2179		10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	A3
R 2180		47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f3
R 2182		47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f3
R 2183		220k	1/16W		RMC1/16 224JATP	J24185224		1-	В	g4
R 2184		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	g4
R 2185	CHIP RES. CHIP RES.	100k	1/16W		RMC1/16 104JATP	J24185104		1-	B ^	g4 D5
R 2187 R 2188		120k 56k	1/16W 1/16W		RMC1/16 124JATP RMC1/16 563JATP	J24185124 J24185563		1- 1-	A B	D5 d5
11 2 100	OTHI NEO.	JUK	1/1000	J /0	INVIO I/ TO SUSSIATE	024100000		1-	ט	uð

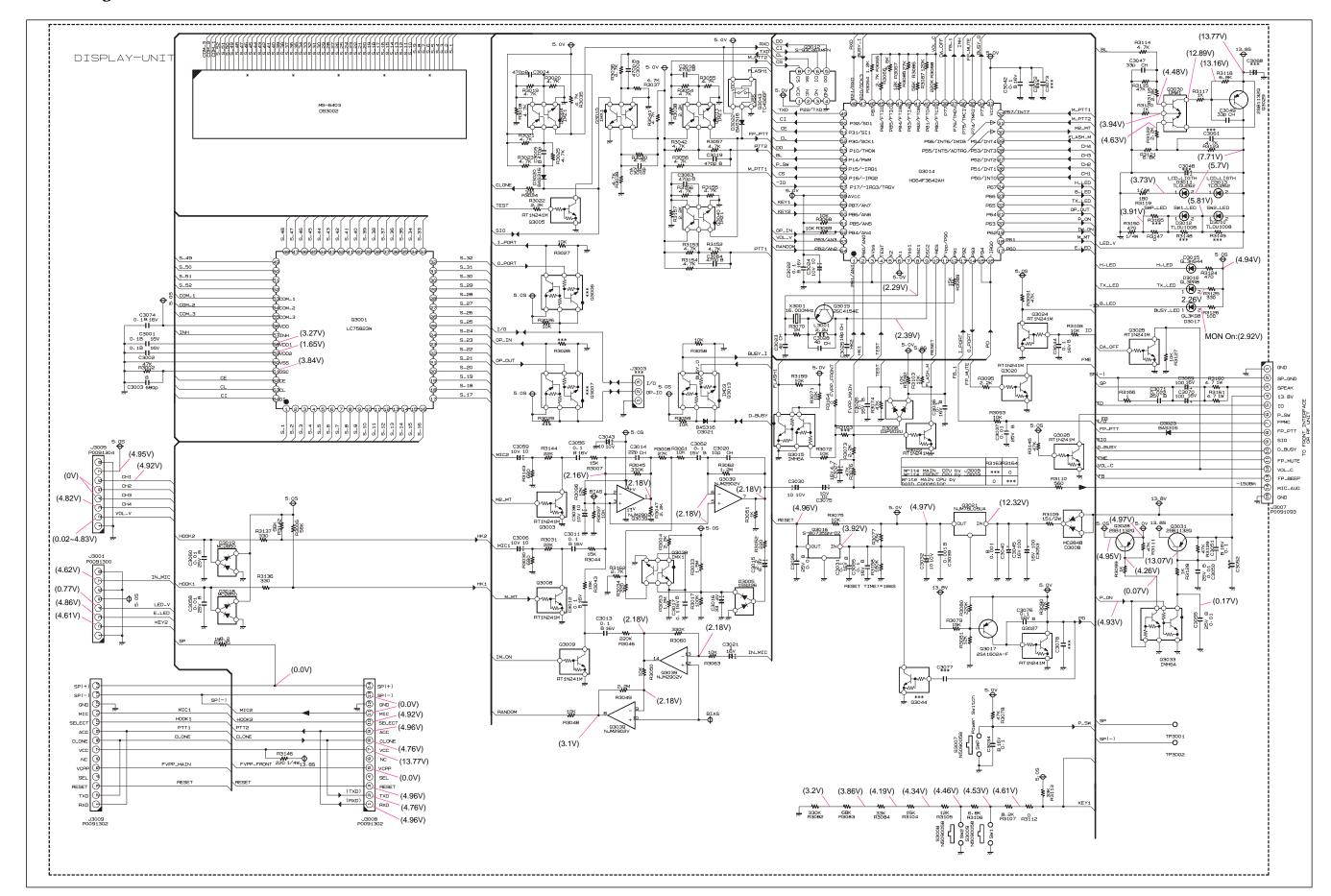
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R 2189	CHIP RES.	150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	Α	D5
R 2190	CHIP RES.	150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	В	d5
R 2191	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	f2
R 2192	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	f2
R 2193		47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	f3
R 2195		10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	f5
R 2196		1k	1/16W		RMC1/16 102JATP	J24185102		1-	Α	B3
R 2197		33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	В	g3
R 2198 R 2200		10k 10k	1/16W 1/16W		RMC1/16 103JATP RMC1/16 103JATP	J24185103 J24185103		1- 1-	A B	A4 d5
R 2200	CHIP RES.	10k 10k	1/16W		RMC1/16 103JATP	J24185103 J24185103		1-	В	t2
R 2201		4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	f3
R 2203		22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	A	B3
R 2204	CHIP RES.	1k		5%	RMC1/16 102JATP	J24185102		1-	Α	B4
R 2205	CHIP RES.	470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	В	f5
R 2206	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	f5
R 2208	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	f1
R 2209		470	1/16W	5%	RMC1/16 471JATP	J24185471		1-	В	d4
R 2210		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d4
R 2211		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	f5
R 2212		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	g4
R 2213	-	2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	f5
R 2214 R 2215		4.7k 4.7k	1/16W 1/16W	5% 5%	RMC1/16 472JATP RMC1/16 472JATP	J24185472 J24185472		1- 1-	B B	f5 f5
R 2216		4.7k 4.7k	1/16W		RMC1/16 472JATP	J24185472		1- 1-	В	g5
R 2217		4.7k 4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	g5 g5
R 2218		4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	f5
R 2219		1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	A	C5
R 2221	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	B5
R 2222	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	Α	B5
R 2223	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	C4
R 2224	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	d4
R 2227	CHIP RES.	0.33	1W	10%	RMC1 R33KATE	J24309001		1-	Α	B2
R 2229	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	f1
R 2230	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	f1
R 2231 R 2232	CHIP RES. CHIP RES.	1k	1/16W	5% 5%	RMC1/16 102JATP	J24185102		1-	В	f1 f1
R 2232	CHIP RES.	1k 1k	1/16W 1/16W	5% 5%	RMC1/16 102JATP RMC1/16 102JATP	J24185102 J24185102		1- 1-	B B	f1
R 2235	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2237		1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2238		1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2240	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2241		1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2242		1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	g1
R 2243		1k	1/16W		RMC1/16 102JATP	J24185102		1-9	В	f1
R 2244		1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	f1
		180k	1/16W		RMC1/16 184JATP	J24185184		1-	В	f2
	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473 J24245100		1-	A	B4
R 2247 R 2248		10 15k	1/4W 1/16W	5% 5%	RMC1/4 100JATP RMC1/16 153JATP	J24245100 J24185153		1- 1-	B A	f2 C5
R 2246		4.7k	1/16W		RMC1/16 472JATP	J24185153 J24185472		1- 1-	A	C5
R 2250		4.7k 2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	A	D5
R 2251		2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	A	D5
R 2254		0	1/16W		RMC1/16 000JATP	J24185000		1-	В	g1
R 2255		0	1/16W		RMC1/16 000JATP	J24185000		1-	В	g1
R 2256	CHIP RES.	470	1/16W		RMC1/16 471JATP	J24185471		1-	В	f1
R 2257	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	f1
R 2258		0	1/16W		RMC1/16 000JATP	J24185000		1-	В	g1
R 2259	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	f1

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 2260	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	g4
R 2261	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	f4
R 2262	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	g3
R 2262	CHIP RES.	470k	1/16W	5%	RMC1/16 474JATP	J24185474		4-	В	g3
R 2263	CARBON FILM RES.	47k	1/6W	5%	RD16PJ473 47K	J01225473		1-	В	f4
R 2263	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		4-	В	f4
R 2264	CARBON FILM RES.	2.2	1/6W	5%	RD16UJ2R2 2.2	J02225229		1-	В	g3
R 2264	CHIP RES.	2.2	1/16W	5%	RMC1/16 2R2JATP	J24185229		4-	В	g3
R 2265	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		4-	Α	A5
R 2266	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		4-	В	e4
R 2267	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		4-	Α	B5
R 2268	CARBON FILM RES.	10k	1/6W	5%	RD16PJ103 10K	J01225103		1-		
R 2269	CHIP RES.	1M	1/10W	5%	RMC1/10T 105J	J24205105		2-		
TC1001	TRIMMER CAP.	10pF			ECR-JA010A11X	K91000227		1-	Α	F4
TH1002	THERMISTOR				TBPS1R473K475H5Q	G9090068		1-	Α	F5
TH1003	THERMISTOR				TBPS1R103K440H5Q	G9090067		1-	Α	F5
TH2002	THERMISTOR				TBPS1R104K475H5Q	G9090069		1-	В	a2
X 1001	XTAL TOP-B	14.5MHz			14.5MHZ	H0103196		1-	Α	F5
X 2001	XTAL 92SMX(A)	16MHz			16.000MHZ	H0103252		1-	Α	A4
XF1001	XTAL FILTER				43Y12B5F	H1102307		1-	Α	F4
XF1002	XTAL FILTER				43Y12B5F	H1102307		1-	Α	F4
	SHIELD CASE				(A)	RA0073900		5-		
	SHIELD CASE					RA0014200		5-		
	LEAF SPRING					R0140031		5-		

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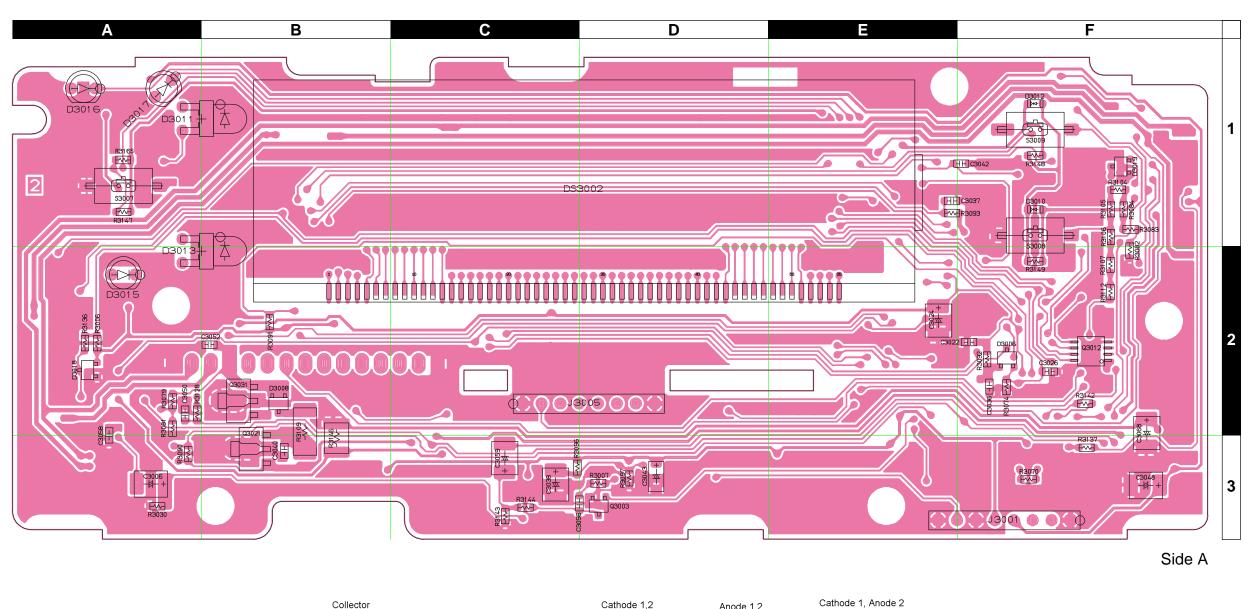
DISPLAY Unit (Lot. 1~)

Circuit Diagram



DISPLAY Unit (Lot. 1~)

Parts Layout

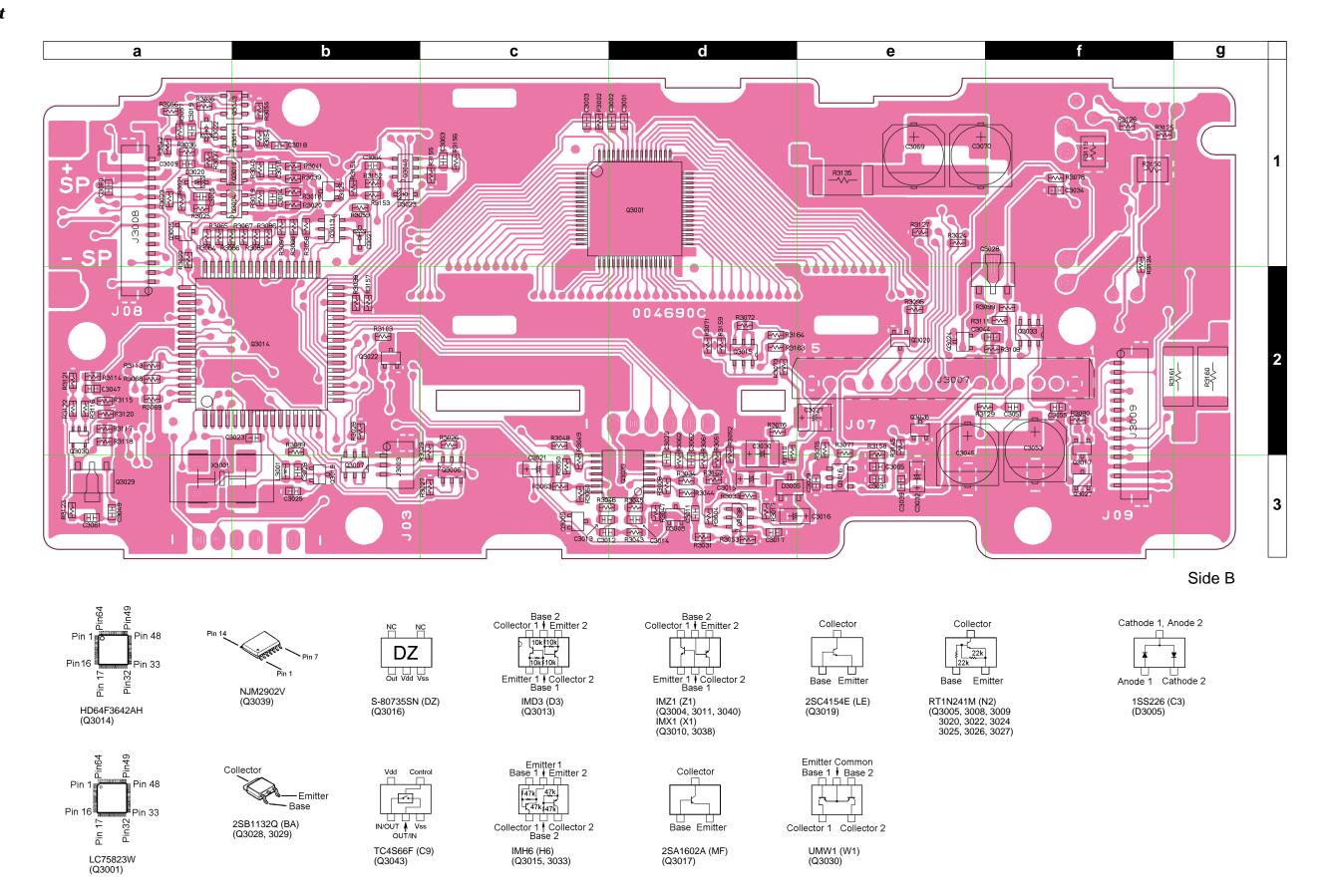


Pin 8
Pin 1

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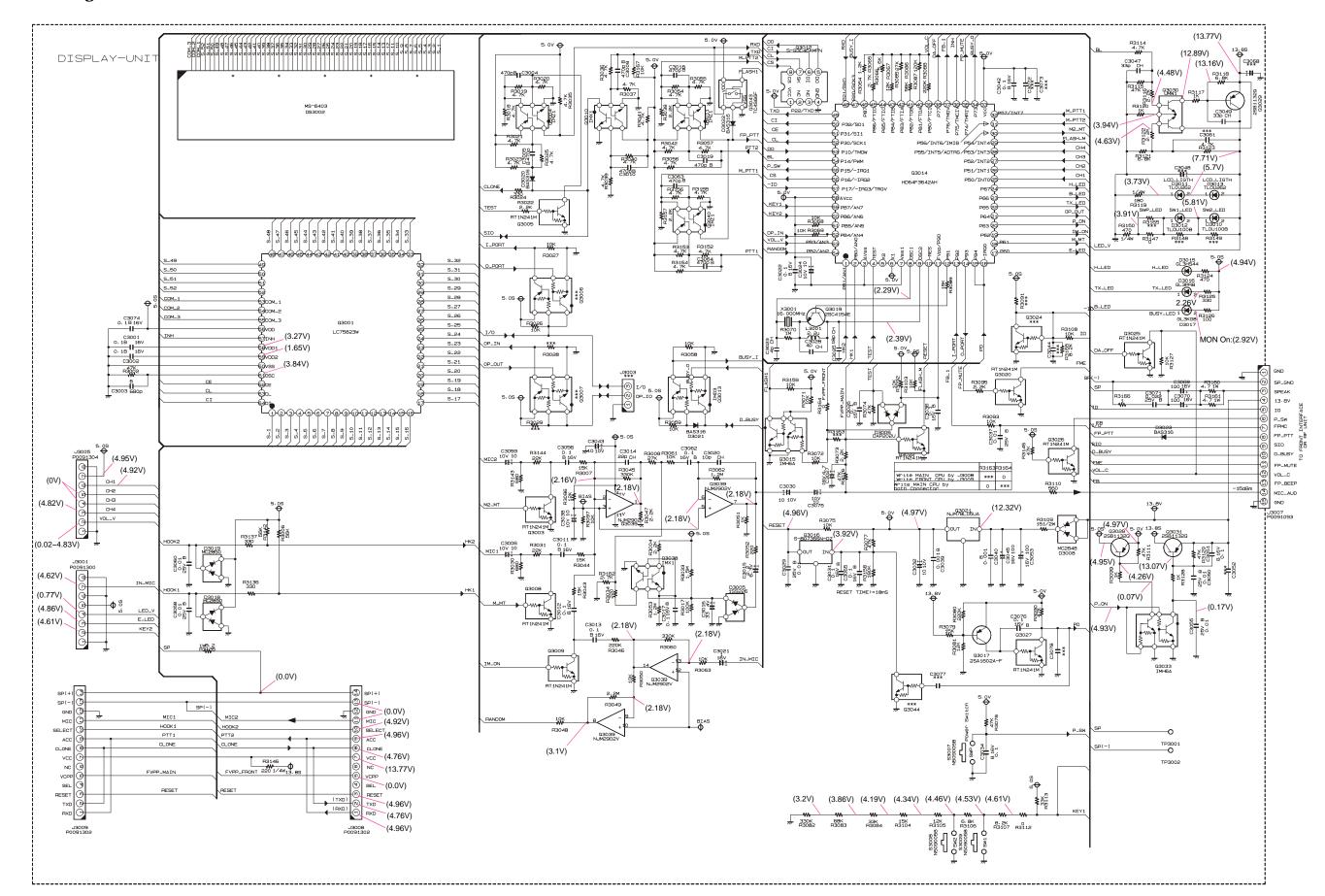
DISPLAY Unit (Lot. 1~)

Parts Layout



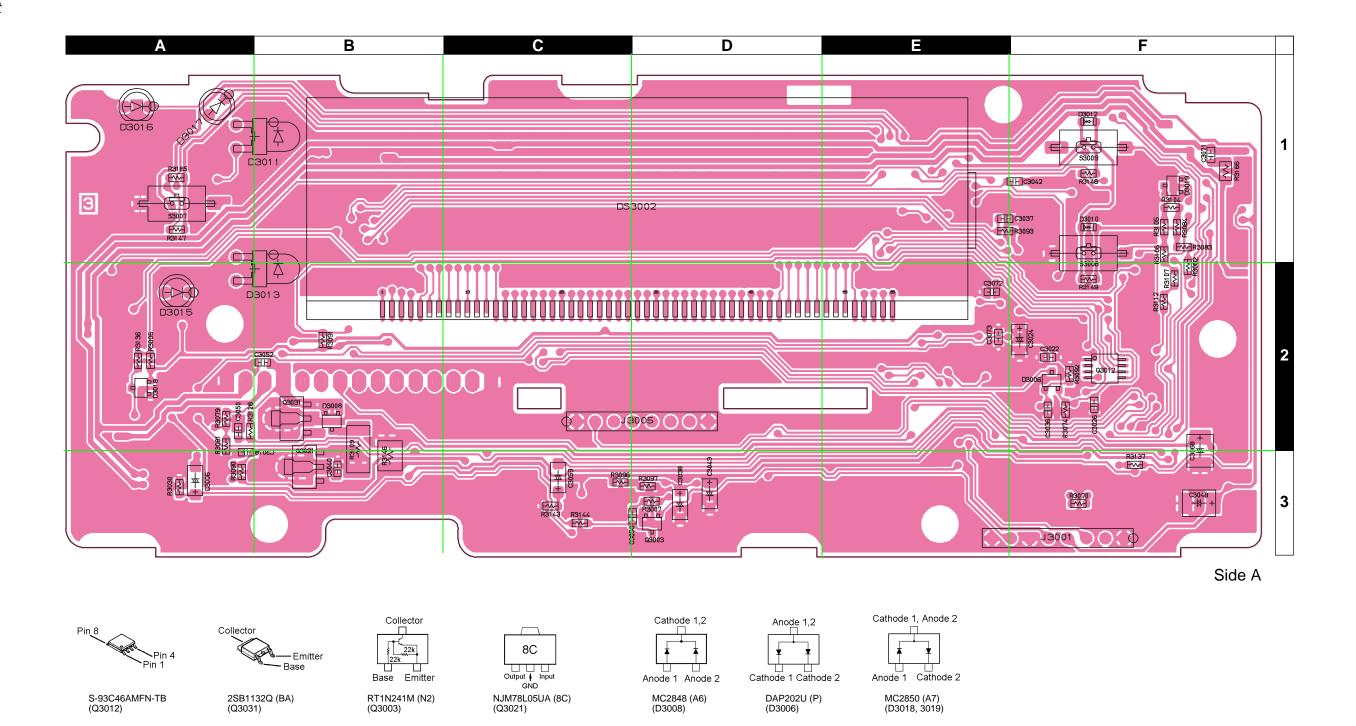
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Circuit Diagram



DISPLAY Unit (Lot. 3~)

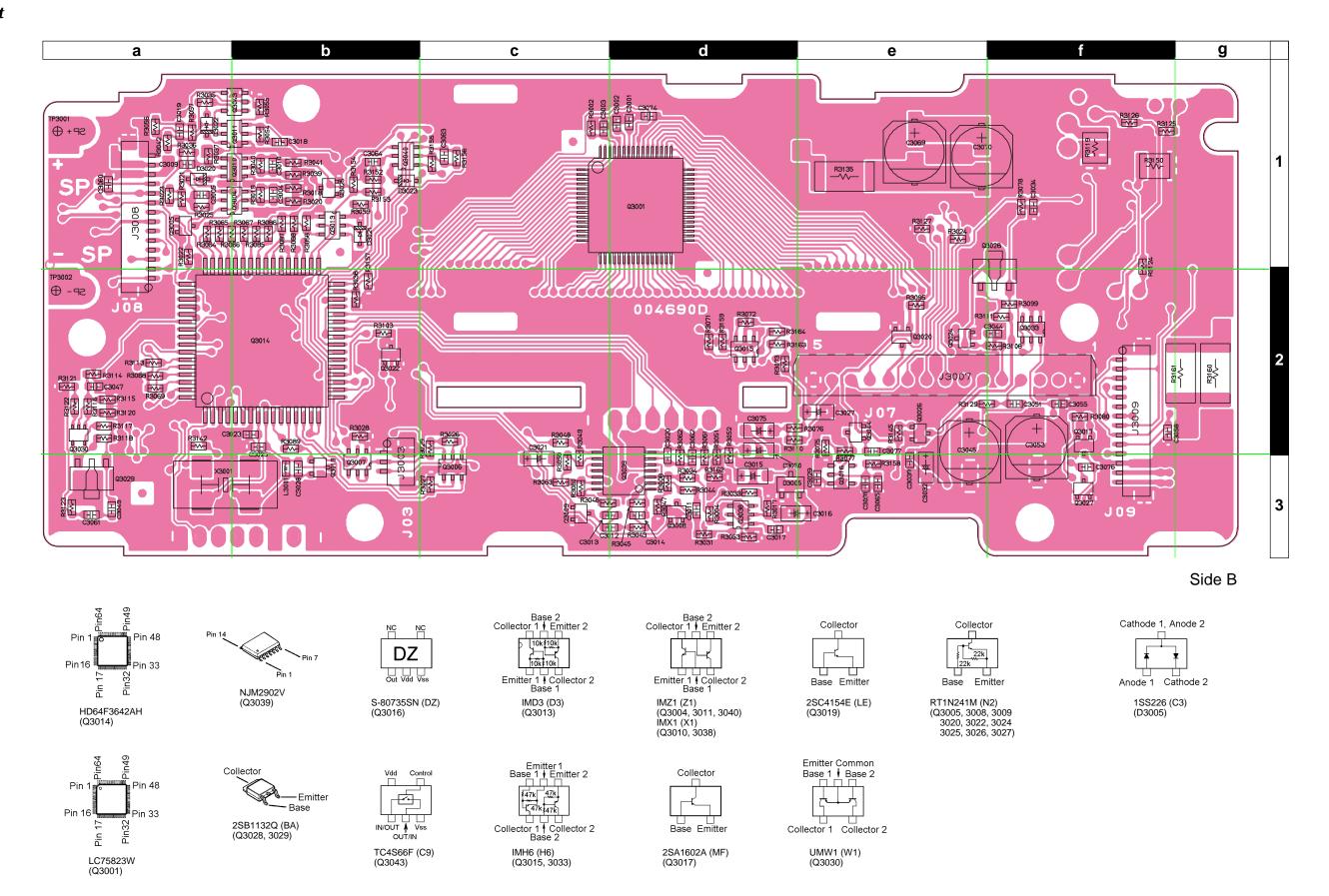
Parts Layout



VX-4000 VHF Service Manual

DISPLAY Unit (Lot. 3~)

Parts Layout



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REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
	PCB with Components			*** DIS	PLAY UNIT ***	CB1088001				
	Printed Circuit Board					FR004690C		1-		
	Printed Circuit Board					FR004690D		3-		
C 3001	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d1
C 3002		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d1
C 3003	CHIP CAP.	680pF	50V	В	GRM39B681M50PT	K22174807		1-	В	c1
C 3004	CHIP CAP.	470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	b1
C 3005	CHIP CAP.	470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	a1
C 3006	CHIP TA.CAP.	4.7uF	16V		TEMSVB21C475M-8R	K78120016		1-	Α	А3
C 3006	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		3-	Α	А3
C 3009	CHIP CAP.	470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	a1
C 3010		470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	b1
C 3011	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d3
C 3012		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d3
C 3013		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d3
C 3014		22pF	50V	СН	GRM39CH220J50PT	K22174219		1-	В	d3
C 3015		2.2uF	6.3V		TESVA0J225M1-8R	K78080009		1-	В	d3
C 3016		33uF	4V	_	TEMSVA0G336M-8R	K78060036		1-	В	d3
C 3017		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d3
C 3018 C 3019		470pF 470pF	50V 50V	B B	GRM39B471M50PT	K22174805 K22174805		1-	B B	b1
C 3019			50V 50V	CH	GRM39B471M50PT GRM39CH100D50PT	K22174805		1- 1-	В	a1 d3
C 3020	CHIP TA.CAP.	10pF 1uF	16V	СП	TMCSA1C105MTR	K78120023		1-	В	c3
C 3021		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	А	F2
C 3022		4pF	50V	CH	GRM39CH040C50PT	K22174205		1-	В	b2
C 3024		4.7uF	16V	011	TEMSVB21C475M-8R	K78120016		1-	A	F2
C 3024		10uF	10V		TEMSVA1A106M-8R	K78100028		3-	A	F2
C 3025	-	18pF	50V	СН	GRM39CH180J50PT	K22174217		1-	В	b2
C 3026		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	A	F2
C 3027	CHIP TA.CAP.	4.7uF	16V		TEMSVB21C475M-8R	K78120016		1-	В	e2
C 3027	CHIP TA.CAP.	4.7uF	16V		TEMSVA1C475M-8R	K78120031		3-	В	e2
C 3028	CHIP CAP.	4pF	50V	СН	GRM39CH040C50PT	K22174205		1-	В	b3
C 3029	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	e3
C 3030	TANTALUM CAP.	10uF	10V		DN1A100M1S	K70107106		1-	В	d2
C 3030	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		3-	В	d2
C 3031	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e3
C 3032	CHIP TA.CAP.	10uF	10V		TEMSVA1A106M-8R	K78100028		1-	В	e3
C 3034		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	f1
C 3036	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	F2
C 3037		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	Α	E1
C 3038		4.7uF	16V		TEMSVB21C475M-8R	K78120016		1-	Α	D3
C 3038		10uF	10V	_	TEMSVA1A106M-8R	K78100028		3-	Α	D3
C 3039		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	В	e3
C 3040		0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	A	B3
C 3042		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	A	F1
	CHIP TA.CAP.	10uF	10V	B	TEMSVA1A106M-8R	K78100028		1-	A	D3
C 3044 C 3045		0.1uF 100uF	16V 16V	В	GRM39B104K16PT ECEV1CA101WP	K22124805		1-8	B B	f2
C 3045		33pF	16V 50V	СН	GRM39CH330J50PT	K48120012 K22174223		1- 1-	В	e2 a2
C 3047		33pF	50V 50V	СН	GRM39CH330J50PT	K22174223		1-	В	a2 a3
C 3049		0.01uF	25V	В	GRM39B103K25PT	K22174223		1-	А	A2
C 3051		0.01uF	16V	В	GRM39B104K16PT	K22124805		1-	В	f2
C 3053		100uF	16V	ا	ECEV1CA101WP	K48120012		1-	В	f2
C 3055		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	f2
C 3056		0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	A	D3
C 3058		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	f2
C 3059		4.7uF	16V		TEMSVB21C475M-8R	K78120016		1-	A	C3
C 3059		10uF	10V		TEMSVA1A106M-8R	K78100028		3-	Α	C3
C 3060		0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	a1
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REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
C 3062	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	d3
C 3063	CHIP CAP.	470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	c1
C 3064	CHIP CAP.	470pF	50V	В	GRM39B471M50PT	K22174805		1-	В	b1
C 3065	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	В	e3
C 3069	AL.ELECTRO.CAP.	100uF	16V		ECEV1CA101WP	K48120012		1-	В	e1
C 3070	AL.ELECTRO.CAP.	100uF	16V		ECEV1CA101WP	K48120012		1-	В	e1
	CERAMIC CAP.	0.022uF	50V	F	DD108F223Z50	K13179010		1-	Α	G1
	CHIP CAP.	0.022uF	25V	В	GRM39B223K25PT	K22144807		3-	Α	G1
	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		3-	В	d1
	TANTALUM CAP.	10uF	10V		DN1A100M1S	K70107106		1-	В	d2
	CHIP TA.CAP.	10uF	10V	_	TEMSVA1A106M-8R	K78100028		3-	В	d2
	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		3-	В	f3
	CHIP TA.CAP. DIODE	1uF	25V		TEMSVA1E105M-8R 1SS226 TE85R	K78140013 G2070003		13- 1-	В	d3
	DIODE				DAP202U T106	G2070003 G2070160		1-	А	F2
	DIODE				MC2848-T11-1	G2070160 G2070694		1-	A	B2
	LED				TLOU1008(T4)	G2070094 G2070796		1-	A	F1
	LED				TLOU262	G2070796 G2090763		1-	A	A1
D 3011					TLOU262	G2090763 G2070796		1-	A	F1
D 3012					TLOU262	G2090763		1-	A	A2
D 3015					GL3HS44	G2090703 G2090675		1-	A	A2
D 3016					GL3PR8	G2090433		1-	A	A1
	LED				GL3KG8	G2090432		1-	A	A1
D 3018					MC2850-T11-1	G2070704		1-	Α	A2
	DIODE				MC2850-T11-1	G2070704		1-	Α	F1
	DIODE				BAS316	G2070716		1-	В	a1
D 3021	DIODE				BAS316	G2070716		1-	В	b1
D 3022	DIODE				BAS316	G2070716		1-	В	a1
D 3023	DIODE				BAS316	G2070716		1-	В	b1
DS3002					MS-6403	G6090140		1-	Α	D1
	CONNECTOR				9210B-1-08Z696-T	P0091300		1-	Α	F3
	CONNECTOR				9210B-1-08Z707-T	P0091304		1-	Α	C2
J 3007	CONNECTOR				SB20-15WS	P0091093		1-	В	f2
	CONNECTOR				BM14B-SRSS-TBT	P0091302		1-	В	a1
J 3009	CONNECTOR WIRE ASSY				BM14B-SRSS-TBT	P0091302		1-	В	f2
	WIRE ASSY WIRE ASSY				GRN 20 2/2 GRN 50 2/2	T50502000 T50505000		1-2 1-2		
	M.RFC	2.2uH			LK1608 2R2K-T	L1690634		1-2	В	b3
	IC	Z.Zun			LC75823W	G1092941		1-	В	d1
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	A	D3
	TRANSISTOR				IMZ1 T108	G3070025		1-	В	b1
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	a1
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	d3
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	c3
	TRANSISTOR				IMX1 T110	G3070024		1-	В	b1
	TRANSISTOR				IMZ1 T108	G3070025		1-	В	b1
Q 3012	IC				S-93C46AMFN-TB	G1093147		1-	Α	F2
	TRANSISTOR				IMD3 T108	G3070053		1-	В	b1
Q 3014					HD64F3642AH R0508	G1093509		1-	В	b2
Q 3014					HD64F3642AH R0527	G1093539		3-	В	b2
Q 3014					HD64F3642AH(FLASH)	G1093228		9-	В	b2
	TRANSISTOR				IMH6A T108	G3070066		1-	В	d2
Q 3016					S-80735SN-DZ-T1	G1091876		1-	В	e3
Q 3016					S-80835CNMC-B8U-T2	G1093606		13-	В	e3
	TRANSISTOR				2SA1602A-T11-1F	G3116028F		1-	В	f2
	TRANSISTOR				2SC4154-T11-1E	G3341548E		1-	В	b3
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	e2
Q 3021					NJM78L05UA TE1	G1091325		1-	A	B3
	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	b2
Q 3024	TRANSISTOR				RT1N241M-T11-1	G3070249		1-8	В	e2

 $[\]boldsymbol{\times}$ Requires Firmware, CE35 and FIF-8. 6B-10

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
Q 3025	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	b1
Q 3026	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	e2
Q 3027	TRANSISTOR				RT1N241M-T11-1	G3070249		1-	В	f3
Q 3028	TRANSISTOR				2SB1132 T100 Q	G3211327Q		1-	В	f2
Q 3029	TRANSISTOR				2SB1132 T100 Q	G3211327Q		1-	В	а3
Q 3030	TRANSISTOR				UMW1 TR	G3070078		1-	В	a2
Q 3031	TRANSISTOR				2SB1132 T100 Q	G3211327Q		1-	Α	B2
Q 3033	TRANSISTOR				IMH6A T108	G3070066		1-	В	f2
	TRANSISTOR				IMX1 T110	G3070024		1-	В	d3
					NJM2902V-TE1	G1091679		1-	В	d3
Q 3040					IMZ1 T108	G3070025		1-	В	b1
Q 3043	IC				TC4S66F TE85R	G1090893		1-	В	b1
R 3002	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	c1
R 3004	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	d3
R 3006	CHIP RES.	56k	1/16W	5%	RMC1/16 563JATP	J24185563		1-	A	A2
R 3007	CHIP RES.	15k	1/16W 1/16W	5%	RMC1/16 153JATP	J24185153		1- 1-	A	D3
R 3008 R 3017	CHIP RES. CHIP RES.	27k 100k	1/16W	5% 5%	RMC1/16 273JATP RMC1/16 104JATP	J24185273 J24185104		1- 1-	B B	d3 d3
R 3017	CHIP RES.	4.7k	1/16W	5% 5%	RMC1/16 104JATP	J24185104 J24185472		1-	В	03 b1
R 3019	CHIP RES.	4.7k 4.7k	1/16W		RMC1/16 472JATP	J24185472 J24185472		1-	В	b1
R 3020	CHIP RES.	4.7k 4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	b1
R 3020	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3022	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	a1
R 3023	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3024	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	В	e1
R 3025	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3026	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	c2
R 3027	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	сЗ
R 3030	CHIP RES.	680	1/16W	5%	RMC1/16 681JATP	J24185681		1-	Α	A3
R 3031	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	В	d3
R 3033	CHIP RES.	1.5M	1/16W	5%	RMC1/16 155JATP	J24185155		1-	В	d3
	CHIP RES.	220	1/16W	5%	RMC1/16 221JATP	J24185221		1-	В	d3
R 3035	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3036	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3037	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	a1
R 3038	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	b2
R 3039	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	b1
R 3040	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1- 1-	В	b1
R 3041	CHIP RES.	4.7k	1/16W	5% 5%	RMC1/16 472JATP	J24185472			В	b1
	CHIP RES. CHIP RES.	4.7k 15k	1/16W 1/16W		RMC1/16 472JATP RMC1/16 153JATP	J24185472 J24185153		1- 1-	B B	a1 d3
		15k 15k	1/16W		RMC1/16 153JATP	J24185153 J24185153		1- 1-	В	d3
		330k	1/16W		RMC1/16 334JATP	J24185334		1-	В	d3
		220k	1/16W		RMC1/16 224JATP	J24185224		1-	В	c3
		2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	d3
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	c2
	CHIP RES.	2.2M	1/16W		RMC1/16 225JATP	J24185225		1-	В	c3
	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	сЗ
R 3051	CHIP RES.	1k	1/16W		RMC1/16 102JATP	J24185102		1-	В	d3
		220	1/16W		RMC1/16 221JATP	J24185221		1-	В	d3
		1.2M	1/16W		RMC1/16 125JATP	J24185125		1-	В	d3
		4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	b1
	CHIP RES.	4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	b1
		4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	a1
	CHIP RES.	4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	a1
		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	b1
		10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	b1
R 3060 R 3061	CHIP RES. CHIP RES.	330k 10k	1/16W 1/16W		RMC1/16 334JATP RMC1/16 103JATP	J24185334 J24185103		1- 1-	B B	c3 d3
		1.2M	1/16W		RMC1/16 103JATP	J24185103 J24185125		1- 1-	В	d3
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VX-4000 VHF Service Manual 6B-11

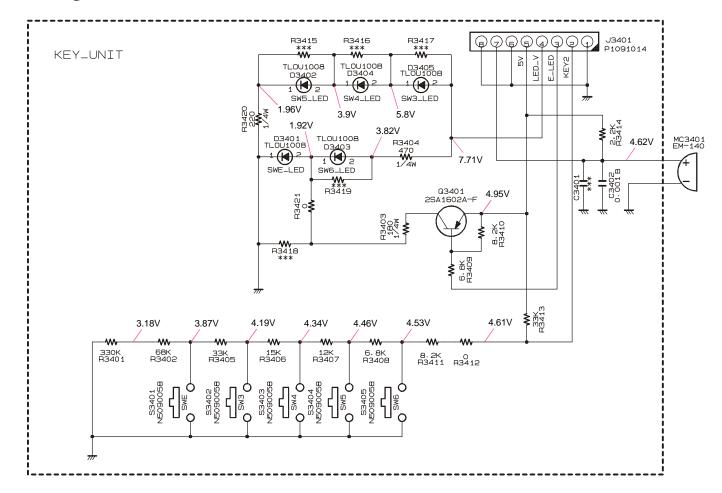
REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 3063	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	с3
R 3064	CHIP RES.	1.2k	1/16W	5%	RMC1/16 122JATP	J24185122		1-	В	a1
R 3065	CHIP RES.	2.7k	1/16W	5%	RMC1/16 272JATP	J24185272		1-	В	a1
R 3066	CHIP RES.	5.6k	1/16W	5%	RMC1/16 562JATP	J24185562		1-	В	a1
	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123		1-	В	b1
R 3068	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	a2
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	a2
	CHIP RES.	1M	1/16W		RMC1/16 105JATP	J24185105		1-	Α	F3
R 3071	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d2
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	d2
	CHIP RES.	2.2k			RMC1/16 222JATP	J24185222		1-	В	d2
	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	A	F2
	CHIP RES. CHIP RES.	10k 47k	1/16W 1/16W		RMC1/16 103JATP	J24185103		1-	В	e2 d2
	CHIP RES.	47k 47k	1/16W		RMC1/16 473JATP RMC1/16 473JATP	J24185473 J24185473		1- 1-	B B	02 e2
	CHIP RES.	47k 47k			RMC1/16 473JATP	J24185473		1-	В	f1
	CHIP RES.	15k	1/16W		RMC1/16 4733ATT	J24185153		1-	A	A2
	CHIP RES.	220k			RMC1/16 1333ATP	J24185133 J24185224		1-	В	f2
R 3081	CHIP RES.	12k	1/16W		RMC1/16 123JATP	J24185123		1-	A	A2
	CHIP RES.	330k	1/16W		RMC1/16 334JATP	J24185334		1-	A	F2
	CHIP RES.	68k			RMC1/16 683JATP	J24185683		1-	Α	F1
	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	Α	F1
R 3085	CHIP RES.	27k	1/16W	5%	RMC1/16 273JATP	J24185273		1-	В	b1
R 3086	CHIP RES.	56k	1/16W	5%	RMC1/16 563JATP	J24185563		1-	В	b1
R 3087	CHIP RES.	120k	1/16W	5%	RMC1/16 124JATP	J24185124		1-	В	b1
R 3088	CHIP RES.	220k	1/16W	5%	RMC1/16 224JATP	J24185224		1-	В	b1
R 3089	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153		1-	В	b2
	CHIP RES.	47k			RMC1/16 473JATP	J24185473		1-	Α	А3
R 3091	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-8	Α	B2
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	Α	F2
R 3093	CHIP RES.	10k			RMC1/16 103JATP	J24185103		1-	A	E1
	CHIP RES.	2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	e2
	CHIP RES.	12k			RMC1/16 123JATP	J24185123		1-	A	C3
R 3097 R 3099	CHIP RES. CHIP RES.	10k 1k	1/16W 1/16W		RMC1/16 103JATP RMC1/16 102JATP	J24185103 J24185102		1- 1-	A B	D3 f2
R 3103	CHIP RES.	10k			RMC1/16 103JATP	J24185102 J24185103		1-	В	b2
	CHIP RES.	15k	1/16W		RMC1/16 153JATP	J24185163		1-	A	F1
R 3104	CHIP RES.	12k	1/16W		RMC1/16 123JATP	J24185123		1-	A	F1
R 3106	CHIP RES.	6.8k		5%	RMC1/16 682JATP	J24185682		1-	A	F1
	CHIP RES.	8.2k	1/16W		RMC1/16 822JATP	J24185822		1-	Α	F2
	CHIP RES.	10k	1/16W		RMC1/16 103JATP	J24185103		1-	В	f2
	CHIP RES.	15			RMC1/2 150JCTP	J24275150		1-	A	B2
	CHIP RES.	560			RMC1/16 561JATP	J24185561		1-	В	d2
	CHIP RES.	47k	1/16W		RMC1/16 473JATP	J24185473		1-	В	f2
R 3112	CHIP RES.	0	1/16W		RMC1/16 000JATP	J24185000		1-	Α	F2
R 3113	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	В	a2
	CHIP RES.	4.7k		5%	RMC1/16 472JATP	J24185472		1-	В	a2
	CHIP RES.	47k			RMC1/16 473JATP	J24185473		1-	В	a2
	CHIP RES.	2.2k			RMC1/16 222JATP	J24185222		1-	В	a2
	CHIP RES.	1k			RMC1/16 102JATP	J24185102		1-	В	a2
	CHIP RES.	6.8k			RMC1/16 682JATP	J24185682		1-	В	a2
	CHIP RES.	180			RMC1/4 181JATP	J24245181		1-	В	f1
	CHIP RES.	1k			RMC1/16 102JATP	J24185102		1-	В	a2
	CHIP RES.	6.8k	1/16W		RMC1/16 682JATP	J24185682		1-	В	a2
	CHIP RES.	2.2k	1/16W		RMC1/16 222JATP	J24185222		1-	В	a2
	CHIP RES.	4.7k	1/16W		RMC1/16 472JATP	J24185472		1-	В	a3 f2
	CHIP RES. CHIP RES.	470 330			RMC1/16 471JATP RMC1/16 331JATP	J24185471 J24185331		1- 1-	B B	f2 f1
	CHIP RES.	100			RMC1/16 331JATP	J24185331 J24185101		1- 1-	В	f1
	CHIP RES.	100 10k	1/16W		RMC1/16 1013ATP	J24185101 J24185103		1-	В	e1
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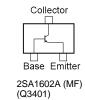
REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
R 3128	CHIP RES.	1k	1/16W	5%	RMC1/16 102JATP	J24185102		1-	Α	A2
R 3129	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	e2
R 3135	CHIP RES.	8.2	1W	5%	RMC1 8R2JTE	J24305829		1-	В	e1
R 3136	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	Α	A2
R 3137	CHIP RES.	330	1/16W	5%	RMC1/16 331JATP	J24185331		1-	Α	F3
R 3142	CHIP RES.	56k	1/16W	5%	RMC1/16 563JATP	J24185563		1-	В	a2
R 3143	CHIP RES.	680	1/16W	5%	RMC1/16 681JATP	J24185681		1-	Α	C3
R 3144	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	Α	C3
R 3145	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	e2
R 3146	CHIP RES.	220	1/4W	5%	RMC1/4 221JATP	J24245221		1-	Α	В3
R 3147	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	Α	A1
R 3150	CHIP RES.	470	1/4W	5%	RMC1/4 471JATP	J24245471		1-	В	f1
R 3152	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	b1
R 3153	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	b1
R 3154	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	b1
R 3155	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	c1
R 3156	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472		1-	В	c1
R 3157	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	В	b2
R 3158	CHIP RES.	180k	1/16W	5%	RMC1/16 184JATP	J24185184		1-	В	e3
R 3159	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	В	d2
R 3160	CHIP RES.	4.7	1W	5%	RMC1 4R7JTE	J24305479		1-	В	g2
R 3161	CHIP RES.	4.7	1W	5%	RMC1 4R7JTE	J24305479		1-	В	g2
R 3162	CHIP RES.	2.7k	1/16W	5%	RMC1/16 272JATP	J24185272		1-	В	d3
R 3164	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	d2
R 3166	CHIP RES.	1	1/10W	5%	RMC1/10T 1R0J	J24205010		3-	Α	G1
R 3167	CARBON FILM RES.	10k	1/6W	5%	RD16PJ103 10K	J01225103		1-		
R 3168	CHIP RES.	8.2k	1/16W	5%	RMC1/16 822JATP	J24185822		9-		
S 3007	TACT SWITCH				SKQDAB	N5090058		1-	Α	A1
S 3008	TACT SWITCH				SKQDAB	N5090058		1-	Α	F1
S 3009	TACT SWITCH				SKQDAB	N5090058		1-	Α	F1
X 3001	XTAL 92SMX(A)	16MHz			16.000MHZ	H0103252		1-	В	a3
	LIGHT GUIDE					RA0252300		1-		
	REFLECTOR SHEET					RA0252700		1-		
	DIFFUSER SHEET					RA0252800		1-		
	RUBBER CONNECTOR					RA0252900		1-		
	LCD HOLDER					RA0253000		1-		
	LED SPACER				LH-5-6	S6000239		1-		
	LIGHT SHEET					RA0276500		5-		

VX-4000 VHF Service Manual 6B-13

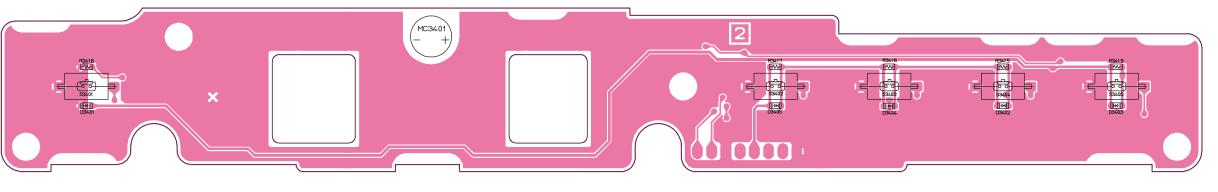
KEY Unit (Lot. 1~)

Circuit Diagram

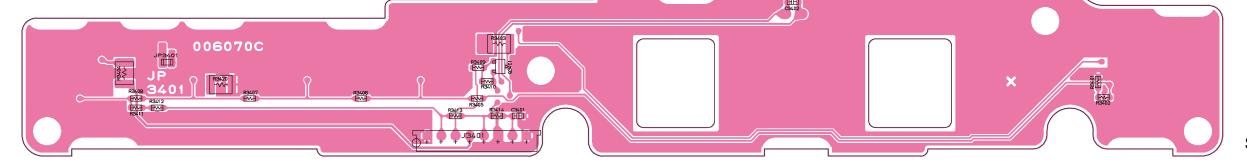




Parts Layout



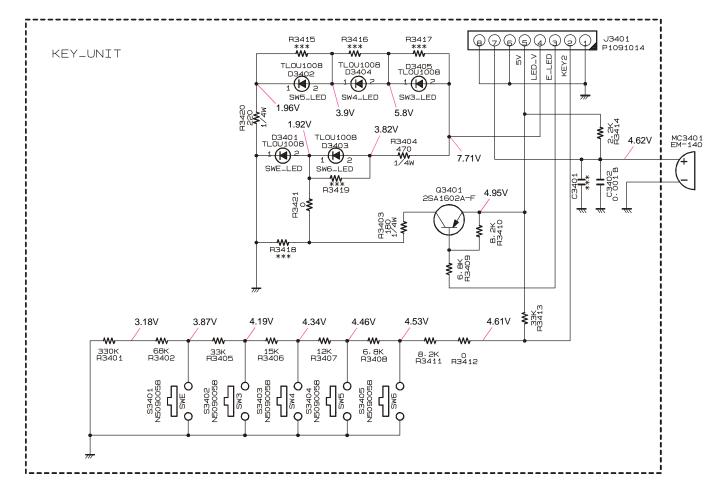
Side A



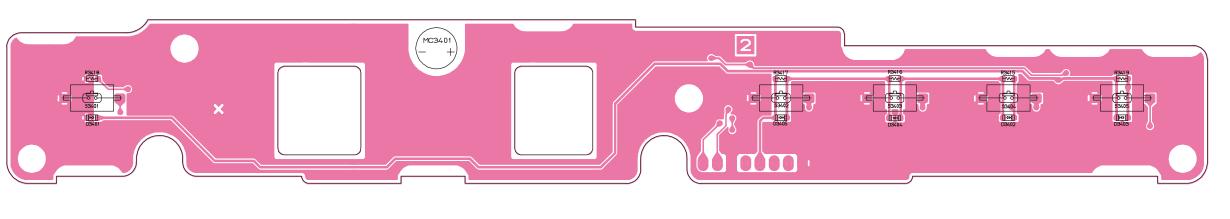
Side B

KEY Unit (Lot. 3~)

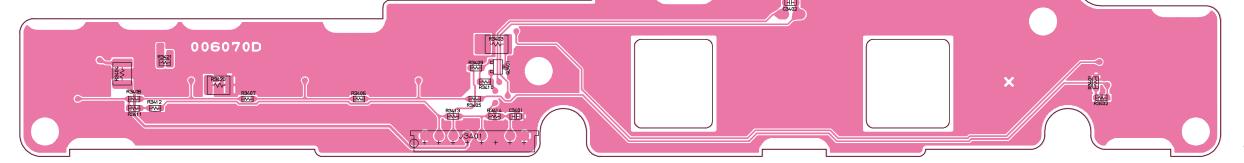
Circuit Diagram



Parts Layout



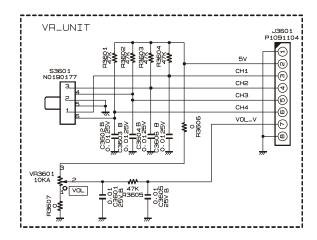
Side A



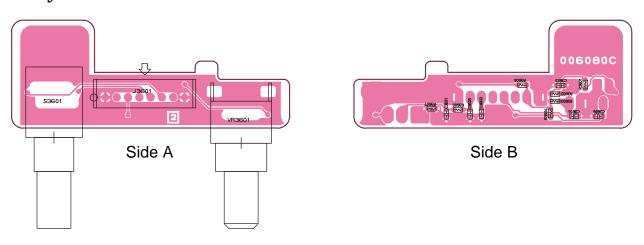
Side B

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N VERS.	LOT.	SIDE.	LAY ADR.
			L	*** KE\	/ UNIT ***				
	PCB with Components					CB1349001			
	Printed Circuit Board					FR006070C	1-		
	Printed Circuit Board					FR006070D	3-		
C 3402	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821	1-	В	
D 3401	LED				TLOU1008(T4)	G2070796	1-	Α	
D 3402	LED				TLOU1008(T4)	G2070796	1-	Α	
D 3403	LED				TLOU1008(T4)	G2070796	1-	Α	
D 3404	LED				TLOU1008(T4)	G2070796	1-	Α	
D 3405	LED				TLOU1008(T4)	G2070796	1-	Α	
J 3401	CONNECTOR				9110S-08	P1091014	1-	В	
MC3401	MIC. ELEMENT				EM-140	M3290032	1-	Α	
Q 3401	TRANSISTOR				2SA1602A-T11-1F	G3116028F	1-	В	
R 3401	CHIP RES.	330k	1/16W	5%	RMC1/16 334JATP	J24185334	1-	В	
R 3402	CHIP RES.	68k	1/16W	5%	RMC1/16 683JATP	J24185683	1-	В	
R 3403	CHIP RES.	180	1/4W	5%	RMC1/4 181JATP	J24245181	1-	В	
R 3404	CHIP RES.	470	1/4W	5%	RMC1/4 471JATP	J24245471	1-	В	
R 3405	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333	1-	В	
R 3406	CHIP RES.	15k	1/16W	5%	RMC1/16 153JATP	J24185153	1-	В	
R 3407	CHIP RES.	12k	1/16W	5%	RMC1/16 123JATP	J24185123	1-	В	
R 3408	CHIP RES.	6.8k	1/16W	5%	RMC1/16 682JATP	J24185682	1-	В	
R 3409	CHIP RES.	6.8k	1/16W	5%	RMC1/16 682JATP	J24185682	1-	В	
R 3410	CHIP RES.	8.2k	1/16W	5%	RMC1/16 822JATP	J24185822	1-	В	
R 3411	CHIP RES.	8.2k	1/16W	5%	RMC1/16 822JATP	J24185822	1-	В	
R 3412	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000	1-	В	
R 3413	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333	1-	В	
R 3414	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222	1-	В	
R 3420	CHIP RES.	220	1/4W	5%	RMC1/4 221JATP	J24245221	1-	В	
R 3421	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000	3-	В	
S 3401	TACT SWITCH				SKQDAB	N5090058	1-	Α	
S 3402	TACT SWITCH				SKQDAB	N5090058	1-	Α	
S 3403	TACT SWITCH				SKQDAB	N5090058	1-	Α	
S 3404	TACT SWITCH				SKQDAB	N5090058	1-	Α	
S 3405	TACT SWITCH				SKQDAB	N5090058	1-	Α	

Circuit Diagram



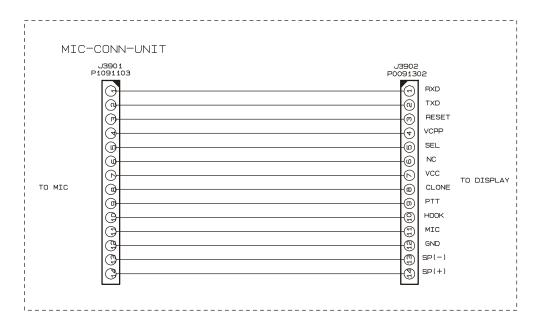
Parts Layout



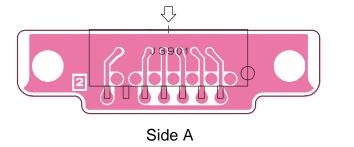
REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
				*** VR	UNIT ***					
	PCB with Components					CB1350001				
	Printed Circuit Board					FR006080C		1-		
C 3601	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
C 3602	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
C 3603	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
C 3604	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
C 3605	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
C 3606	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		1-	В	
J 3601	CONNECTOR				9110S-08L	P1091104		1-	Α	
R 3601	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	
R 3602	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	
R 3603	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	
R 3604	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	
R 3605	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	В	
R 3606	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	
R 3607	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	В	
S 3601	ROTARY SWITCH				SRZW0L	N0190177		1-	Α	
VR3601	POT.				RK09L1120 L=15 10KC	J60800253		1-	Α	
VR3601	POT.				RK09L1120 L=15 10KC	J60800258		5-	Α	

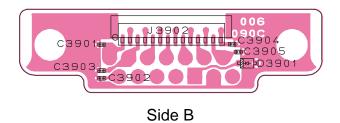
MIC CONN Unit

Circuit Diagram



Parts Layout





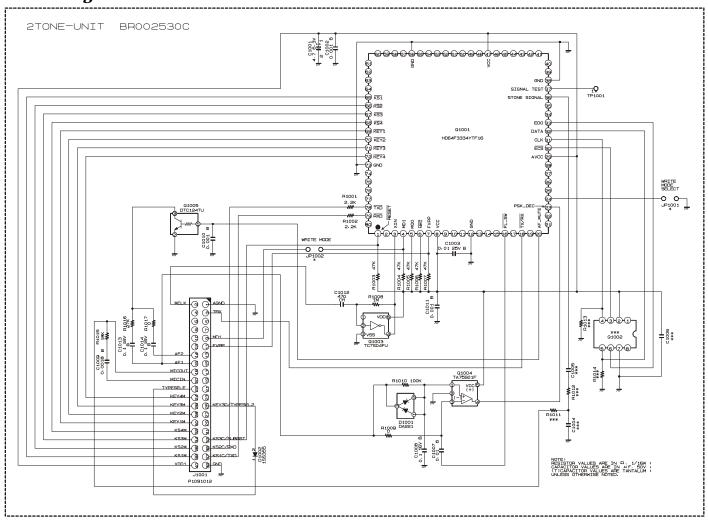
Parts List

REF.	DESCRIPTION	VALUE	WV	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE.	LAY ADR.
				*** MIC	CONN UNIT ***					
	PCB with Components					CB1384001				
	Printed Circuit Board					FR006090C		1-		
J 3901	CONNECTOR				14FE-ST-VK-N	P1091103		1-	Α	
J 3902	CONNECTOR				BM14B-SRSS-TBT	P0091302		1-	В	

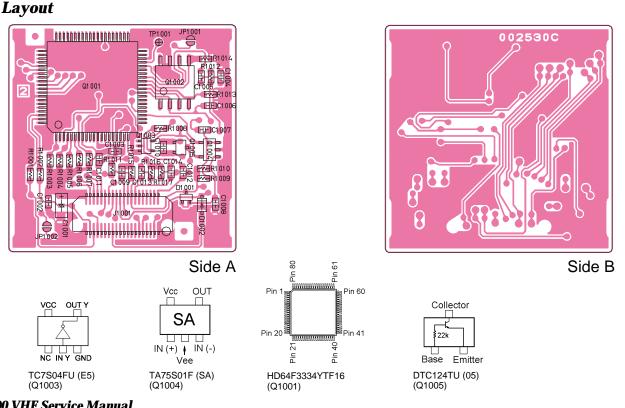
6D-2

F2D-8 2-Tone Decode Unit

Circuit Diagram



Parts Layout

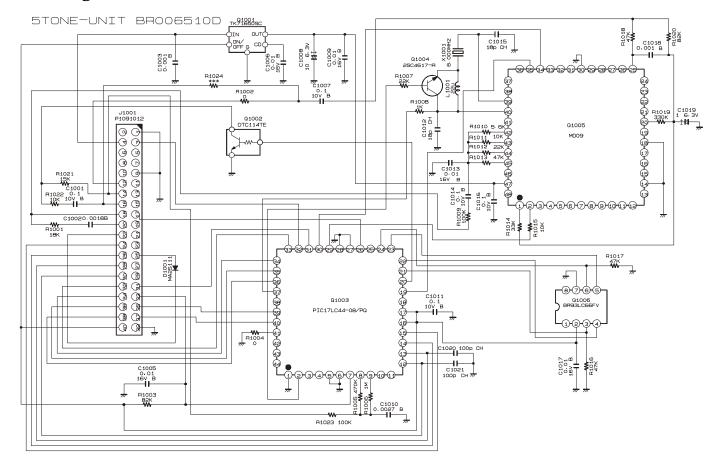


F2D-8 2-Tone Decode Unit

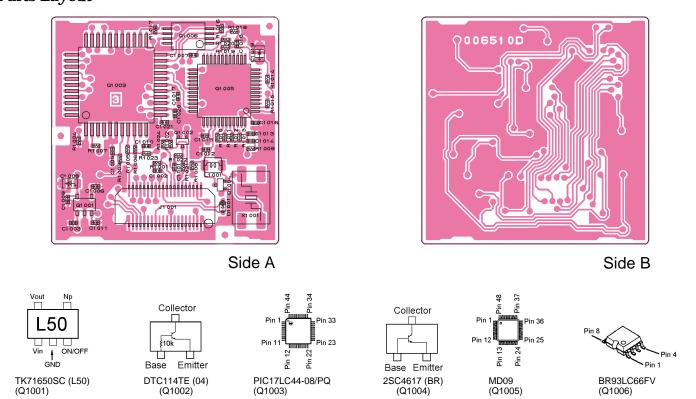
REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N VERS.	LOT.	SIDE LAY ADR
					*** F2D-8 ***			
	Printed Circuit Board					FR002530C	1-	
C 1001	CHIP TA.CAP.	4.7uF	6.3V		TEMSVA0J475M-8R	K78080017	1-	Α
C 1002	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821	1-	Α
C 1003	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803	1-	Α
C 1007	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805	1-	Α
C 1007	CHIP CAP.	0.0015uF	50V	В	GRM39B152M50PT	K22174811	6-	Α
C 1007	CHIP CAP.	0.01uF	50V	В	GRM39B103M50PT	K22174823	18-	Α
C 1008	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805	1-	Α
C 1009	CHIP CAP.	0.0018uF	50V	В	GRM39B182M50PT	K22174812	1-	Α
C 1010	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821	1-	Α
C 1011	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821	1-	Α
C 1012	CHIP CAP.	47pF	50V	CH	GRM39CH470J50PT	K22174227	1-	Α
C 1013	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805	1-	Α
C 1014	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805	1-	Α
D 1001	DIODE				DA221 TL	G2070178	1-	Α
D 1002	DIODE				1SS355 TE-17	G2070470	1-	Α
J 1001	CONNECTOR				AXK5S40035P	P1091012	1-	Α
Q 1001	IC				HD64F3334YTF16 R0226	G1092873	1-	Α
Q 1003	IC				TC7S04FU TE85R	G1091530	1-	Α
Q 1004	IC				TA75S01F TE85R	G1091593	1-	Α
Q 1005	TRANSISTOR				DTC124TU T106	G3070065	1-	Α
R 1001	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222	1-	Α
R 1002	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222	1-	Α
R 1003	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473	1-	Α
R 1004	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473	1-	Α
R 1005	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473	1-	Α
R 1006	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473	1-	Α
R 1007	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473	1-	Α
R 1008	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105	1-	Α
R 1009	CHIP RES.	4.7k	1/16W	5%	RMC1/16 472JATP	J24185472	1-	Α
R 1009	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000	6-	Α
R 1010	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104	1-	Α
R 1015	CHIP RES.	18k	1/16W	5%	RMC1/16 183JATP	J24185183	1-	Α
R 1016	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000	1-	Α
R 1016	CHIP RES.	27k	1/16W	5%	RMC1/16 273JATP	J24185273	6-	Α
R 1017	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000	1-	Α
	BLIND SHEET					RA0109300	1-	

F5D-14 5-Tone Unit

Circuit Diagram



Parts Layout

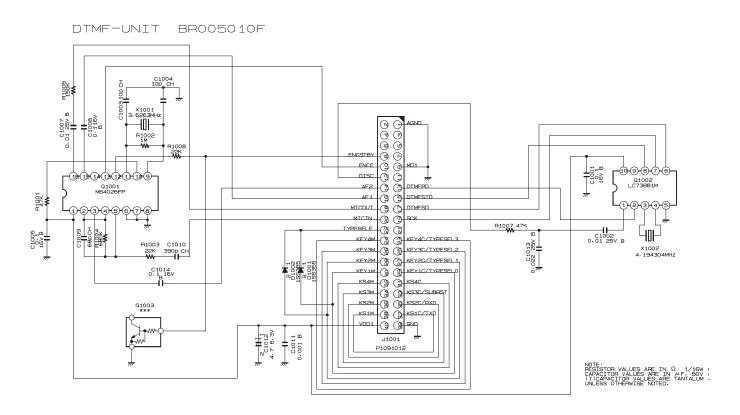


F5D-14 5-Tone Unit

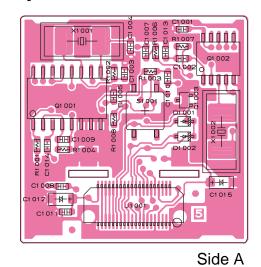
REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
					*** F5D-14 ***					
	Printed Circuit Board					FR006510B		1-		
	Printed Circuit Board					FR006510D		3-		
C 1001	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	
C 1002	CHIP CAP.	0.0018uF	50V	В	GRM36B182K50PT	K22178812		1-	Α	
C 1003	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	Α	
C 1005	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	
C 1006	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	
C 1007	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	
C 1008	CHIP TA.CAP.	10uF	6.3V		EEJK0JS106R	K78080079		1-	Α	
C 1008	CHIP TA.CAP.	10uF	6.3V		ECST0JZ106R	K78080078		8-	Α	
C 1009	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	
C 1010	CHIP CAP.	0.0027uF	50V	В	GRM36B272K50PT	K22178814		1-	Α	
C 1011	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	
C 1012	CHIP CAP.	18pF	50V	CH	GRM36CH180J50PT	K22178218		1-	Α	
C 1013	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	
C 1014	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	
C 1015	CHIP CAP.	18pF	50V	CH	GRM36CH180J50PT	K22178218		1-	Α	
C 1016	CHIP CAP.	0.1uF	10V	В	GRM36B104K10PT	K22108802		1-	Α	
C 1017	CHIP CAP.	0.01uF	16V	В	GRM36B103K16PT	K22128804		1-	Α	
C 1018	CHIP CAP.	0.001uF	50V	В	GRM36B102K50PT	K22178809		1-	Α	
C 1019	CHIP TA.CAP.	1uF	6.3V		TMCP0J105MTR	K78080071		1-	Α	
C 1020	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	Α	
C 1021	CHIP CAP.	100pF	50V	CH	GRM36CH101J50PT	K22178236		1-	Α	
D 1001	DIODE				MA2S111-(TX)	G2070614		1-	Α	
J 1001	CONNECTOR				AXK5S40035P	P1091012		1-	Α	
L 1001	M.RFC	22uH			ELJ-FC220K	L1690201		1-	Α	
Q 1001	IC				TK71650SCL	G1093136		1-	Α	
	TRANSISTOR				DTC114TE TL	G3070225		1-	Α	
Q 1003					PIC17LC44-08/PQ	S8100917		1-	Α	
	TRANSISTOR				2SC4617 TL R	G3346178R		1-	Α	
Q 1005	IC				MD09	G1093276		1-	Α	
Q 1006					BR93LC66FV-E2	G1092853		1-	Α	
R 1001	CHIP RES.	18k	1/16W	5%	RMC1/16S 183JTH	J24189040		1-	Α	
R 1002	CHIP RES.	0	1/16W	5%	RMC1/16S JPTH	J24189070		1-	Α	
R 1003	CHIP RES.	82k	1/16W	5%	RMC1/16S 823JTH	J24189048		1-	Α	
	CHIP RES.	0	1/16W		RMC1/16S JPTH	J24189070		1-	Α	
	CHIP RES.	470k	1/16W		RMC1/16S 474JTH	J24189057		1-	Α	
	CHIP RES.	1M	1/16W	5%	RMC1/16S 105JTH	J24189061		1-	Α	
	CHIP RES.	22k	1/16W	5%	RMC1/16S 223JTH	J24189041		1-	Α	
	CHIP RES.	1k	1/16W	5%	RMC1/16S 102JTH	J24189025		1-	A	
	CHIP RES.	100k	1/16W		RMC1/16S 104JTH	J24189049		1-	A	
	CHIP RES.	5.6k	1/16W		RMC1/16S 562JTH	J24189034		1-	A	
	CHIP RES.	10k	1/16W		RMC1/16S 103JTH	J24189037		1-	A	
	CHIP RES.	22k	1/16W		RMC1/16S 223JTH	J24189041		1-	A	
	CHIP RES.	47k	1/16W		RMC1/16S 473JTH	J24189045		1-	A	
	CHIP RES.	33k	1/16W		RMC1/16S 333JTH	J24189043		1-	A	
	CHIP RES.	10k	1/16W		RMC1/16S 103JTH	J24189037		1-	A	
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	
	CHIP RES.	47k	1/16W	5%	RMC1/16S 473JTH	J24189045		1-	A	
	CHIP RES.	330k	1/16W	5%	RMC1/16S 334JTH	J24189055		1-	A	
R 1020		82k	1/16W	5%	RMC1/16S 823JTH	J24189048		1-	A	
R 1021	CHIP RES.	15k	1/16W	5%	RMC1/16S 153JTH	J24189039		1-	A	
R 1022		10k	1/16W	5%	RMC1/16S 103JTH	J24189037		1-	A	
R 1023		100k	1/16W	5%	RMC1/16S 104JTH	J24189049		1-	<u>A</u>	
X 1001	XTAL 94SMX	8MHz			8.000MHZ	H0103248		1-	Α	
	BLIND SHEET					RA0109300		1-		

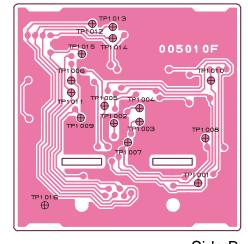
FVP-25 Encryption / DTMF Pager Unit

Circuit Diagram

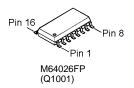


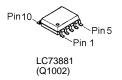
Parts Layout

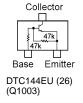




Side B





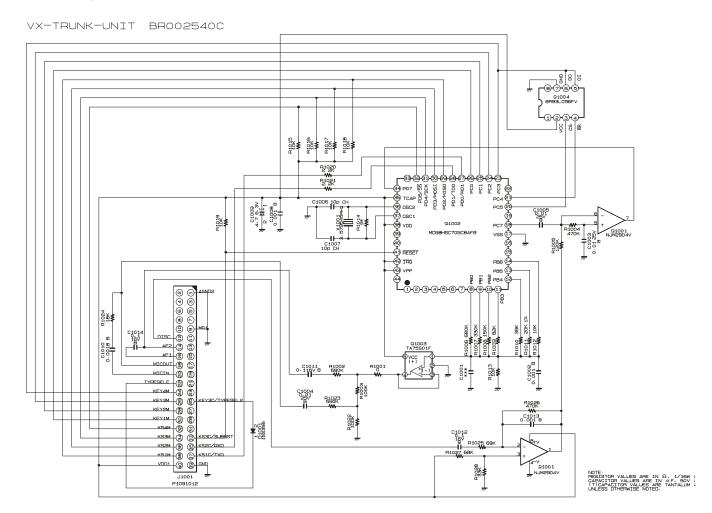


FVP-25 Encryption / DTMF Pager Unit

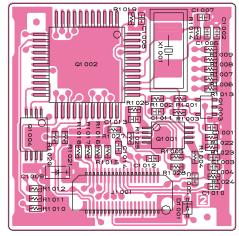
REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADR
					*** FVP-25 ***					
	Printed Circuit Board					FR005010F		1-		
C 1001	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	B1
C 1002	CHIP CAP.	0.01uF	25V	В	GRM39B103M25PT	K22144802		1-	Α	B1
C 1003	CHIP CAP.	10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	Α	A1
C 1004	CHIP CAP.	10pF	50V	CH	GRM39CH100D50PT	K22174211		1-	Α	A1
C 1005	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	A1
C 1007	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	A1
C 1007	CHIP CAP.	0.01uF	25V	В	GRM39B103M25PT	K22144802		32-	Α	A1
C 1008	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	A2
C 1009	CHIP CAP.	68pF	50V	CH	GRM39CH680J50PT	K22174231		1-	Α	A1
C 1010	CHIP CAP.	390pF	50V	CH	GRM39CH391J50PT	K22174255		1-	Α	A1
C 1011	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	A2
C 1012	CHIP TA.CAP.	4.7uF	6.3V		TEMSVA0J475M-8R	K78080017		1-	Α	A2
C 1013	CHIP CAP.	0.022uF	25V	В	GRM39B223K25PT	K22144807		1-	Α	A1
C 1014	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	A1
D 1001	DIODE				1SS355 TE-17	G2070470		1-	Α	B1
D 1002	DIODE				1SS355 TE-17	G2070470		1-	Α	B1
J 1001	CONNECTOR				AXK5S40035P	P1091012		1-	Α	A2
Q 1001	IC				M64026FP-650C	G1092754		1-	Α	A1
Q 1002	IC				LC73881M-TLM	G1092755		1-	Α	B1
Q 1003	TRANSISTOR				DTC144EU T106	G3070041		1-	Α	B1
R 1001	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	Α	A1
R 1002	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	Α	A1
R 1003	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		1-	Α	A1
R 1004	CHIP RES.	680k	1/16W	5%	RMC1/16 684JATP	J24185684		1-	Α	A1
R 1006	CHIP RES.	150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	Α	A1
R 1007	CHIP RES.	47k	1/16W	5%	RMC1/16 473JATP	J24185473		1-	Α	B1
R 1008	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	A1
R 1008	CARBON FILM RES.	22k	1/8W	5%	RD18TJ223 22K	J01215223		14-	Α	A1
R 1008	CHIP RES.	22k	1/16W	5%	RMC1/16 223JATP	J24185223		17-	Α	A1
X 1001	XTAL SX-1315	3.6263MHz			3.6263MHZ	H0103183		1-	Α	A1
X 1002	XTAL SX-1315	4.194304MHz			4.194304MHZ	H0103184		1-	Α	B1
	BLIND SHEET					RA0109300		1-		

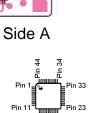
VTP-50 VX-Trunk Unit

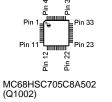
Circuit Diagram

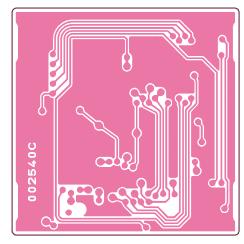


Parts Layout

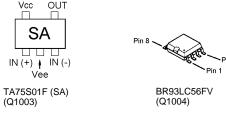








Side B



NJM2904V (Q1001)

VTP-50 VX-Trunk Unit

REF.	DESCRIPTION	VALUE	V/W	TOL.	MFR'S DESIG	VXSTD P/N	VERS.	LOT.	SIDE	LAY ADF
					*** VTP-50 ***	•				
	Printed Circuit Board					FR002540C		1-		
C 1002	CHIP CAP.	0.001uF	50V	В	GRM39B102K50PT	K22174821		1-	Α	
C 1003	CHIP CAP.	0.01uF	25V	В	GRM39B103M25PT	K22144802		1-	Α	
C 1003	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		9-	Α	
C 1004	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	
C 1004	CHIP CAP.	0.01uF	25V	В	GRM39B103K25PT	K22144803		9-	Α	
C 1005	CHIP CAP.	0.01uF	25V	В	GRM39B103M25PT	K22144802		1-	Α	
C 1005	CHIP CAP.		25V	В	GRM39B103K25PT	K22144803		9-	Α	
C 1006	CHIP CAP.		50V	CH	GRM39CH100C50PT	K22174248		1-	Α	
C 1007	CHIP CAP.	•	50V	CH	GRM39CH100C50PT	K22174248		1-	Α	
C 1008	CHIP CAP.		50V	В	GRM39B102K50PT	K22174821		1-	Α	
C 1009	CHIP TA.CAP.		6.3V		TEMSVA0J475M-8R	K78080017		1-	Α	
C 1010	CHIP CAP.		50V	В	GRM39B182M50PT	K22174812		1-	Α	
C 1011	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	
C 1012	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	
C 1013	CHIP CAP.		50V	В	GRM39B102K50PT	K22174821		1-	Α	
C 1014	CHIP CAP.	0.1uF	16V	В	GRM39B104K16PT	K22124805		1-	Α	
D 1001	DIODE				1SS355 TE-17	G2070470		1-	Α	
J 1001	CONNECTOR				AXK5S40035P	P1091012		1-	Α	
Q 1001	IC				NJM2904V-TE1	G1091677		1-	Α	
Q 1002	IC				MC68HSC705C8A502-6030 130	G1092917		1-	Α	
Q 1002	IC				MC68HSC705C8A502-6030 131	G1093326		6-	A	
Q 1003	IC				TA75S01F TE85R	G1091593		1-	A	
Q 1004	IC	•	4 /4 0) 4 /	5 0/	BR93LC56FV-E2	G1092787		1-	Α	
R 1001	CHIP RES.	0	1/16W	5%	RMC1/16 000JATP	J24185000		1-	A	
R 1002	CHIP RES.	680k	1/16W	5%	RMC1/16 684JATP	J24185684		1-	A	
R 1003	CHIP RES. CHIP RES.	100k 470k	1/16W 1/16W	5% 5%	RMC1/16 104JATP	J24185104		1-	A	
R 1004 R 1005	CHIP RES.	470k 120k	1/16W	5% 5%	RMC1/16 474JATP	J24185474 J24185124		1- 1-	A A	
R 1005	CHIP RES.	680k	1/16W	5% 5%	RMC1/16 124JATP RMC1/16 684JATP	J24185684		1-	A	
R 1007	CHIP RES.	330k	1/16W	5% 5%	RMC1/16 004JATP	J24185334		1-	A	
R 1007	CHIP RES.	150k	1/16W	5%	RMC1/16 154JATP	J24185154		1-	Α	
R 1009	CHIP RES.	82k	1/16W	5% 5%	RMC1/16 134JATP RMC1/16 823JATP	J24185823		1-	A	
R 1010	CHIP RES.	39k	1/16W	5%	RMC1/16 393JATP	J24185393		1-	A	
R 1010	CHIP RES.	20k	1/16W	1%	RMC1/16 203FTP	J24183203		1-	A	
R 1012	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	A	
R 1013	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1014	CHIP RES.	1M	1/16W	5%	RMC1/16 105JATP	J24185105		1-	Α	
R 1015	CHIP RES.		1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1016	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1017	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1018	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1019	CHIP RES.	10k	1/16W	5%	RMC1/16 103JATP	J24185103		1-	Α	
R 1020	CHIP RES.		1/16W	5%	RMC1/16 222JATP	J24185222		1-	Α	
R 1021	CHIP RES.	2.2k	1/16W	5%	RMC1/16 222JATP	J24185222		1-	Α	
R 1022	CHIP RES.	100k	1/16W	5%	RMC1/16 104JATP	J24185104		1-	Α	
R 1023	CHIP RES.	560k	1/16W	5%	RMC1/16 564JATP	J24185564		1-	Α	
R 1024	CHIP RES.	18k	1/16W	5%	RMC1/16 183JATP	J24185183		1-	Α	
R 1025	CHIP RES.		1/16W	5%	RMC1/16 683JATP	J24185683		1-	Α	
R 1026	CHIP RES.	470k	1/16W	5%	RMC1/16 474JATP	J24185474		1-	Α	
R 1027	CHIP RES.	68k	1/16W	5%	RMC1/16 683JATP	J24185683		1-	Α	
R 1028	CHIP RES.	33k	1/16W	5%	RMC1/16 333JATP	J24185333		1-	Α	
X 1001	XTAL SX-1315	3.579545MHz			3.579545MHZ	H0103185		1-	Α	
	BLIND SHEET					RA0109300		1-		